

LP 1768 SERIES

1 / 2 needle post-bed compound-feed lockstitch industrial sewing machine

INSTRUCTION / OPERATING MANUAL PARTS MANUAL



Used sewing machines Gebrauchtmaschinen Máquinas usadas Machines occasion



New sewing machines Neue Nähmaschinen Máquinas nuevas Machines nouveaux



Spare parts for Global machines



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1. PRECAUTIONS BEFORE STARTING 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 adjusting the machine, or when replacing.
- (4) A void placing fingers, hairs, bars etc. nears the pulley, bobbin winder pulley, 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 mini motor 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 machine nameplate.

3) Precaution for Operating Conditions

- A void using the machine at abnormally high temperature (35°C or higher) or low temperatures (5°C or lower). Otherwise, machine failure may result.
- (2) A void 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

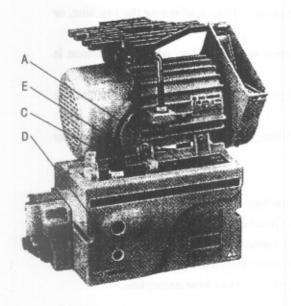
2. SPECIFICATIONS

| Item | | 2 | 1L | | | | | | |
|--|-----------------|---------------------------------|------|----------------|--|--|--|--|--|
| Max. Speed | THE CHARLES | 2400rpm | | | | | | | |
| Stitch length | | 0 to 9mm | | | | | | | |
| Needle bar str | oke | Liter one of Stee, | 34mm | el connects in | | | | | |
| Presser foot By hand clearance By knee | | | 9 mm | | | | | | |
| | | 16 mm | | | | | | | |
| Rotating hook | | Large vertical hook (1.6 times) | | | | | | | |
| Needle | anesan dalajw a | DP×17 #18-#25 | | | | | | | |
| Presser foot al | Iternation | 1-7mm | | | | | | | |
| Needle gauge | (mm) | 8 (Standard) 10, 12 | | | | | | | |
| Auto presser f | foot lifter | Pneumatic | | | | | | | |
| Oil lubrication | n method | Automatic lubrication | | | | | | | |
| Bed dimensio | ns | 300×120 mm | | | | | | | |
| Motor | | 750W sevor motor | | | | | | | |

3. PREPARATION BEFORE STARTING TO OPERATE

1) Connection of control box

If the machine which customer bought is not wholly assembled, the customer should connection the electrical wires and the air pipes by themselves. Shows as the Fig.1 and Fig.2



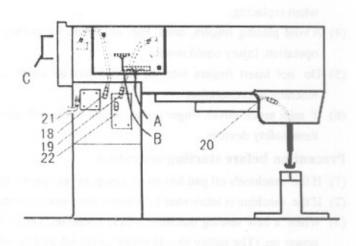


Fig. 1

There are same connectors which need to connect to the machine from the control box:

A: machine function input, connect to the PCB board on the machine arm.

B: pass the valve signal from the PCB board to the magnet valve board.

C: needle position monitor input ,connect to the monitor on the machine arm.

D: operation panel input ,connect to the panel.

E: operation pedal input, connect to the pedal.

If there is any problems during connecting wires, please check the instruction book of HO HSING control box.

NOTICE: all the connects is unique with each other ,and if they can't match it ,please check whether you get the right one.

2)Connection of pneumatic parts

The pneumatic parts of the machine are controlled by the magenet valves which assembled on the setting board, and the position where the setting board be assembled under the machine table should be decided by the length of the wires and the air pipes.

The pneumatic parts are composed by the filter g ,the solenoid valves a~f and the cylinders they control The method of pneumatic parts connecting have been showed by Fig.3:

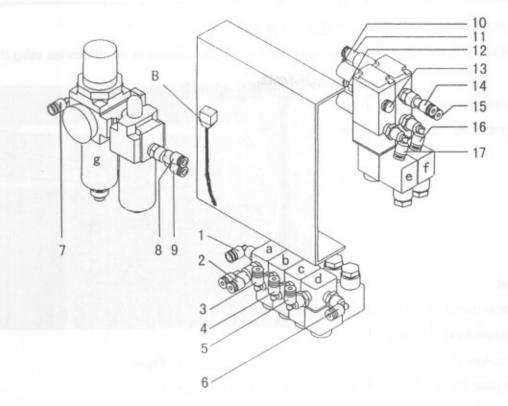


Fig.3

Here are the functions of the solenoid valves:

a: thread cutting b: thread tension c: press foot alternation d: material guider(just for double needle) e: back tacking f: press foot lift

The pressed air come from air compressor go to the input join 7,after be filtered,the output 8 and 9 link to the inputs of the solenoid valves as follow:

1:connect to 8,pressed air input

2:link to the cylinder of thread cutting (bidirectional)

3:link to the cylinder of thread tension 4:link to the cylinder of press foot alternation

5:link to the cylinder of material guider 6:connect to the joint 14 as the input of material guider

10:connect to 9 as input for press foot lift 11:connect to 12 as the input of back tacking.

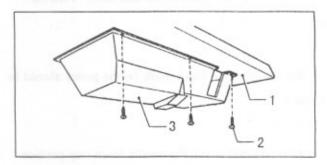
13:plug

15&16:link to the cylinder of press foot lift (bidirectional)

17:link to the cylinder of back tacking

When connecting the air pipes, please check the instruction mark of the solenoid joints at the setting board.

Oil pan



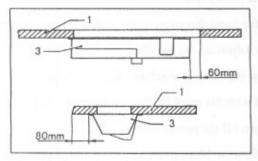
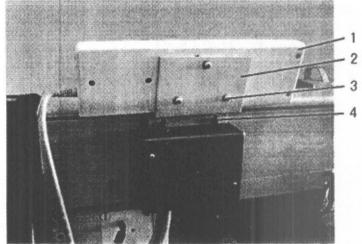


Fig.4

Fig.5

The installation of the oil pan is showed as the fig.4 and fig.5:

- (1) Install the oil pan 3 to the underside of the worktable 1 in the place shown in the illustration using the nails 2.
- (2) From front view, the oil pan 3 to the side is 60mm; from right view, the oil pan 3 to the side is 80mm.



4) Operation panel

Installe the operation panel As Fig.6 shows:

(1) Install the operation panel 1 to the set plate 2 with the three screws 3.

Fig.6

(2) Install the set plate 2 to the back of the machine arm with the two screws 4.

5) Adjusting the needle stop position

(1) Adjusting the needle up stop position

When the sewing machine stops in the needle up stop position (the stop position of trimming) and the treadle is pressed back, the red mark on the pulley should be consistent with the mark on the belt cover A. Adjust as follows by Fig.7:

- a. Turn off the power switch.
- b. Loosen the screw 4, and then remove the cover 3.
- c. When the red mark stops in a position over the mark on the belt cover, the needle up stop position disc 1 should be turned in the opposite direction as the direction

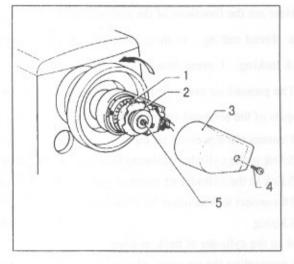


Fig.7

of machine pulley rotation. When the red mark stops in a position under the mark on the belt cover, Turn the disc 1 in the same direction as the pulley rotation direction.

(2) Adjusting the needle down stop position

When the sewing machine stops in the needle down stop position, the black mark on the pulley should be consistent with the mark on the belt cover A. Adjust as follows:

- a. Turn off the power switch.
- b. When the black mark stops in a position over the mark on the belt cover, the needle down stop position disc 2 should be turned in the opposite direction as the direction of machine pulley rotation. When the black

mark stops in a position under the mark on the belt cover, Turn the disc 2 in the same direction as the pulley rotation direction.

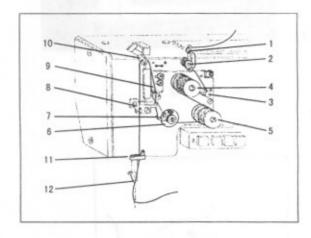
c. After adjusting, install the cover 3, with screw 4.

Note: There is no need to loose the screw 5, when turning the discs.

4. HOW TO USE THE MACHINE

1) Threading

Raise the thread take-up lever to its highest position and pass the upper thread in the following order.



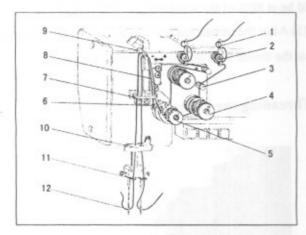


Fig.8

Fig.9

2) Adjusting of the thread regulator

The thread regulator 9 of Fig.8 (8 of Fig 9) regulates the amount of needle thread necessary for stitch formation. The setting depends on the following factors: material thickness, yarn characterisation and stitch length.

The thread regulator is fitted with slots for this purpose. Moving in the "+"direction increases the quantity of needle thread; Moving in the "-"direction reduces the quantity of needle thread.

3) Adjusting of upper thread tension

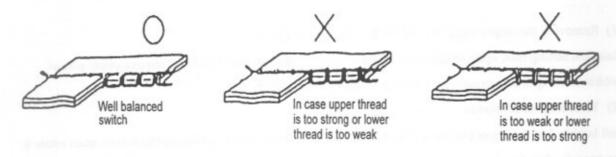


Fig.10

The thread tension should be as low as possible. The crossover point should be in the center of the material. Upper thread tension can be adjusted by thread tension nut 4 and 5 (see Fig.8 and Fig.9). Turn the thread tension nut clockwise to increase the needle thread tension. Turn the thread tension nut counter-clockwise to decrease the needle thread tension.

4) Winding the lower thread

Winding the lower thread as Fig.11 shows:

- (1) Place the bobbin on the bobbin winder shaft.
- (2) Pass the thread for winding thread as shown, and wind the end of the thread clockwise around the bobbin several times.
 - (3) Push the bobbin presser 1 toward the bobbin.
- (4) The operation will automatically stop when winding is completed. The amount of thread wound onto the bobbin should be at 80% of the maximum bobbin capacity.
- (5) After the thread has been wound on, remove the bobbin and cut the thread with the thread-trimming knife

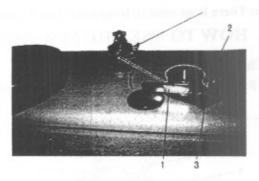
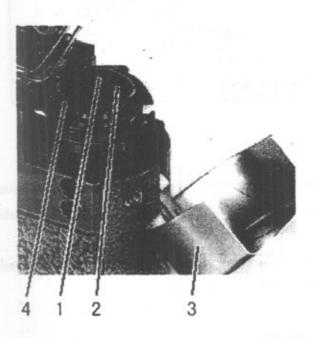


Fig.11

5) Threading the lower thread



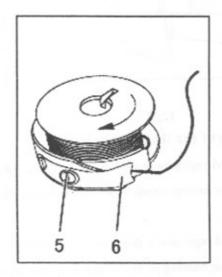


Fig.12

(1) Removing the empty looper-thread bobbin, be showed on Fig.12

Raise the setting foot, open shuttle cover 3, then, raise bobbin-housing flap 1 and remove upper part of bobbin-housing 2.So, you can remove empty looper-thread bobbin.

(2) Threading looper thread

Full bobbin 4 in the upper part of bobbin-housing 2 (When the thread is unwound the bobbin must rotate in the opposite direction (see arrow), then ,drew looper thread through slit 5 beneath tensioning spring 6.

6) Adjusting the lower-thread tension

Open the shuttle cover first and adjust the tensioning spring 6 with regulating screw 5. If want to increase looper-thread tension, turn screw 5 clockwise and if want to decrease looper-thread tension, please turn screw 5 counter clockwise. After the adjustment close the shuttle cover.

Caution: The looper-thread tension may only be adjusted with the sewing machine switched off.

7) Installing the needle

Note: Before attach needle, be sure to turn off the power.

As showed on Fig.13

- Turn the balance wheel by hand to raise the needle bar
 to its highest position;
- 2) Loosen the needle clamping screw 3;
- 3) Hold the needles with the long groove face to the bobbin case of the same side, and insert it as deeply as it will go into the needle clamping holes.
- 4) Tighten the needle clamping screw3.

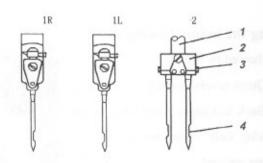


Fig.13

8) Alternating presser foot movement amount

The alternating movement amount for the inner presser foot and the outer presser foot can be adjusted within the range of 1-7 mm using the alternating presser foot movement dial 1. Turn the alternating presser foot movement dial 1 clockwise or counterclockwise to align the mark. (MIN. A, B, C, D, E, F MAX.) When the alternating movement change from MIN to MAX, the sewing speed will turn form 2000 rpm to 1700 rpm synchronously.

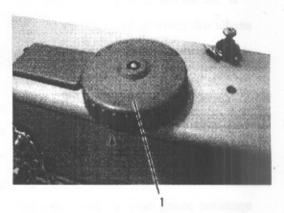


Fig.14

9) Adjusting the presser foot pressure

Look at Fig.15,

The presser foot pressure should be set as weak as possible, but strong enough so that the material can't slip out. If the presser-adjusting dial 1 is turned clockwise, the presser foot pressure will become stronger, and if it is turned counterclockwise, the pressure will become weaker.

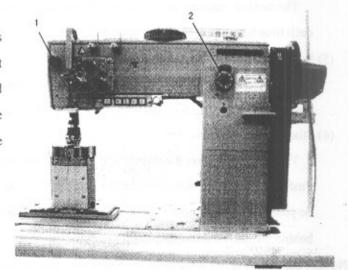


Fig.15

10) Adjusting the stitch length

The feed adjustment dials 2 can be used to set stitch length. (See Fig.15) The sewing machine will switch between the two stitch lengths each time the stitch length change switch is pressed.

11) Using the manual switches

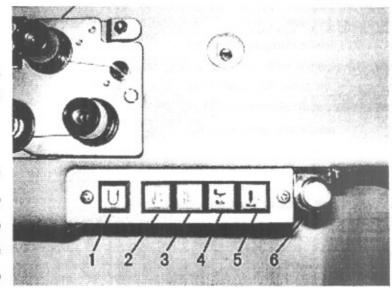
Be showed by Fig.16:

(1) Quick reverse switch

Back tacking is carried out during sewing only while the switch 1 is being pressed.

(2) Needle up or down switch

If the switch 2 is pressed, The needle will move up to the needle up stop position from down stop position or move down to the needle down stop position from up stop position.



(3) Auto back tacking select switch

Fig.16

If the switch 3 is pressed when either start back tacking or end back tacking has been set to ON at the operation panel, back tacking is canceled for the first time only. Furthermore, if the switch 3 is pressed when neither starting nor end back tacking has been set, back tacking is carried out for the first time only.

(4) Alternating presser foot movement change switch

The sewing machine can be switched between two different alternating presser foot movement amounts each time when the switch 4 is pressed.

(5) Presser foot guider

The switch controls the cylinder of the presser foot guider and the status changed by each press of the buttom. OFF: Presser foot guider turn off; ON: Presser foot guider on.

(6) Stitch counter switch

The orange light on the switch will flash and the machine will stop when the bobbin thread is used up. Push the switch one more time after change the bobbin. The sewing machine cannot run before the switch be pushed one more time. The stitch count should be set according to the stitch length and the count of the bobbin thread. (it is special order parts)

Notice: the switch is not work until the correlative functions of the control box are set. The functions please read the parameter 42, 43, 44 in the servo motor user manual.

12) Cleaning

- (1) The area around the feed dog and the hook should be cleaned every day.
- (2) Remove any thread scraps from inside the rotary hook.
- (3) Keep the control box clean.

13) Lubrication

(1) Check the oil level at the sight glass 2 of Fig.17 every week. If the oil is not enough, remove oil-filling screw 1 and pour in oil. Check oil level at sight glass 2. The oil level must be between "EMPTY" and "FULL". Replace oil-filling screw 1. After running for 500 hours since buying the new sewing machine, the oil must be changed. Then change the oil every two years.

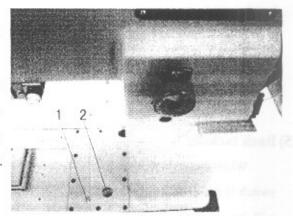


Fig.17

(2) Lubricating wicks and felt (see the Fig. 19)

- a. The wick 1 leading from the oil sump to the oscillating crank 4 must be fixed between the groove 2 in the arm and the spring 3 of the recirculation wick.
- b. When the oil satchel is changed, the flock side should be faced to connecting plate 10. The oil wick 7 and 8 should be set between the oil satchel 9 and plate 8.

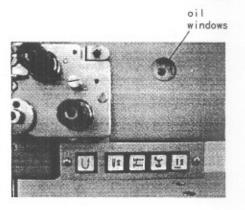


Fig.18

(3) Checking the lubrication oil

Turn on the power switch. Depress the treadle gently and check that the oil level rises in the oil sight glass.

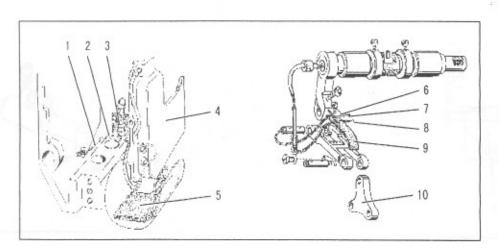


Fig.19

14) Adjusting the trailing length after thread trimming

Look at Fig.20: adjust by turning the pre-tensioner. If the tension of the pre-tension is increased, the lengths of the threads trailing from the needle tips will be reduced; if the tension is reduced, the lengths will be increased.

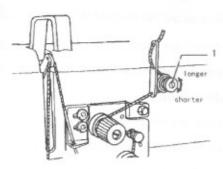


Fig.20

15) Back tacking

When the reverse lever 1 or the quick reverse switch is pressed during sewing, the feed direction will be reversed. When it is released, the feed direction will return to normal.(Fig.21)

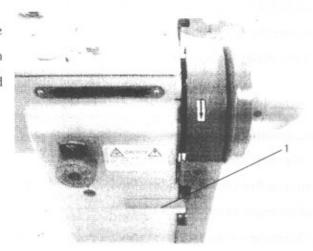
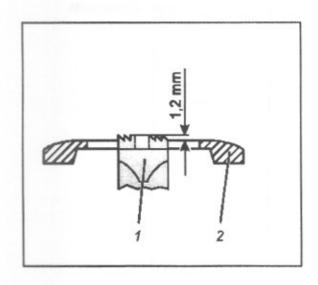


Fig.21

16) Adjusting the feed dog



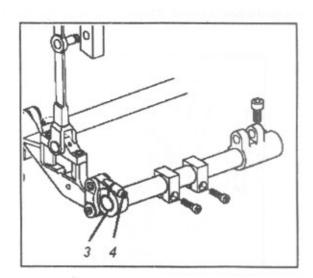


Fig.22

Caution: Check and adjust height of the feed-dog only when sewing machine is switched off.

The checking and correction are showed by Fig.22

(1)Standard checking

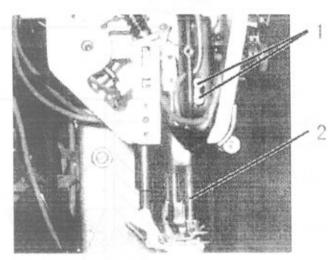
The highest position of feed-dog 1 must be 1.2mm(approx. one tooth depth) above the throat plate level.

Set stitch length"0"(Turn button counter-clockwise as far as it will go). Then, turn handwheel until feed-dog 1 has reached its highest position, check the height of feed-dog 1 above throat plate level 2

(2)Correction

Set stitch length "0",loosen clamping screw 4 at crank 3, and twist crank 3 in such a way that the highest position of feed-dog 1 is 1.2mm above throat plate 2,then tighten clamping screw 4 at last.

Attention: crank 3 must not be shifted axially when being turned.



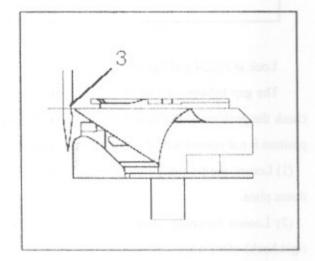


Fig.23

17) Adjusting the needle bar height

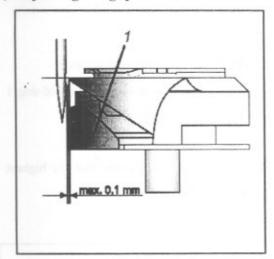
Be showed by Fig.23:

In looping stroke position the hook tip must be at the level of the middle of the needle hollow groove 3.

When the position is not correct, follow the step below:

- (1) Remove the face plate.
- (2) Set the feed adjustment dials to "0".
- (3) Turn the pulley to set the needle bar 2 to its lowest position.
- (4) Loosen the screw 1 and then move the needle bar 2 up and down to adjust so that the hook tip is at the level of the middle of the needle.
 - (5) Tighten the screw 1, install the face plate.

18) Adjusting the gap between the needle and the rotary hook tip



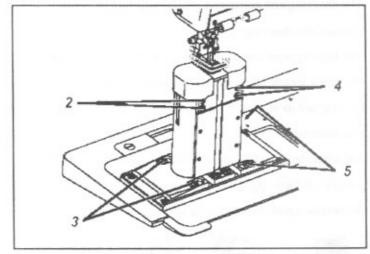


Fig.24

Look at Fig.24 and Fig.25:

The gap between the needle and the rotary hook tip 6 is 0.1 mm. check the position of the hook tip and the needle hollow groove ,if the position is not correct with the requirement ,adjust it as follow:

- (1) Loosen the screws 2 (for left hook) screw 4(for right hook) of the throat plate.
- (2) Loosen fastening screw 3(for left hook), fastening screw 5(for right hook) of the hook support.
 - (3) Shift hook support correspondingly.

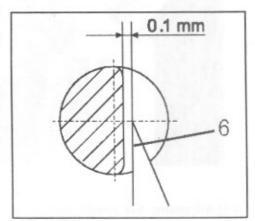


Fig.25

(4) Tighten the screws 3,5 and 2,4.

19) Adjusting of the needle and the hook timing

Look at Fig.26

- (1) Set the stitch length to "0".
- (2) Open the shuttle cover.
- (3) Overturn the arm.
- (4) Loosen the screw 1
- (5) Turn the machine pulley to raise the needle bar from its low position to the point that the needle rises 2.4 mm.
- (6) Turn the rotary hook to align the rotary hook tip with the center of the needle.
 - (7) Tighten the screw 1.

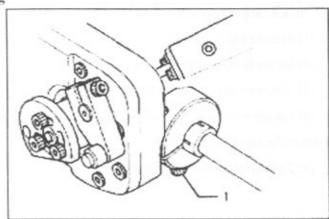


Fig.26

20) Hook protection

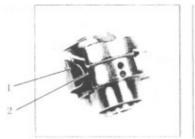




Fig.27

Be showed by Fig.27,in looping stroke position the needle must abut on the hook protection 1 without being displaced. Move needle in looping stroke position by pulley. In looping stroke position the hook tip 4 is at the level of the middle of the needle. Press needle against hook protection 1 manually. The needle should not touch the hook tip.the hook protection 1 chould be adjusted by screw 3.

21) Adjusting the needle and feed mechanism timing

(1) Horizontal feed direction (showed by Fig.28)

Set the feed adjustment dials to the maximum settings. Then turn the machine pulley until the bobbin tip catches the thread (when the needle is 2.4mm above the lowest position) The needle and the feed dog do not move even when the reverse lever is moved up and down at this time.

- a. Remove the bed upper cover 1.
- b. Set the feed adjustment dial to the maximum settings.
- c. Loosen the two screws 2.
- d. Turn the machine pulley until the needle is at its thread catching position.
- e. Turn the lower feed cam 3 gradually until it is at the position where the needle and the feed dog do not move even when the reverse lever is moved up and down.
 - f. Tighten the two screws 2.
 - (2) Vertical feed direction(showed by Fig.29)

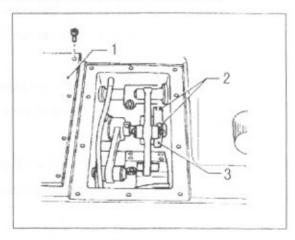


Fig.28

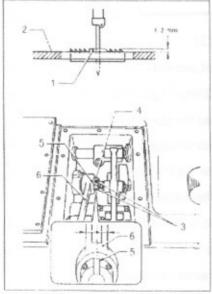
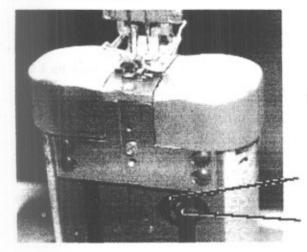


Fig. 29

Set the feed adjustment dials to the minimum settings. Then adjust as follows so that the feed dog 1 is at its highest position (1.2mm above the top of the needle plate 2) when the needle bar is at its lowest position.

- a. Loosen the two screws 3
- b. Turn the machine pulley to set the needle bar to its lowest position.
- c. Turn feed cam 4 to align the point 5 of feed cam 4 with the centerline of feed rod 6
- d. Tighten the screws 3

22) Bobbin case lifter



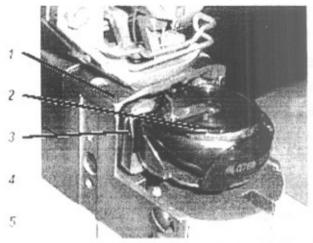
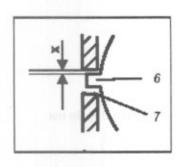


Fig.30



Look at Fig.30 and Fig.31, the thread lever must pull the needle thread over the bobbin case through gap 7 of the throat plate1.

At the moment of the thread slipping through lifting finger 3 lifts bobbin case 2. Due to the unhindered thread passage the desired seam pattern is achieved with the lowest possible thread tension.

The lifting finger 3 is controlled via the eccentric in the hook shaft and the control block 4.

Fig.31

Wrong adjustments may cause thread breakage, loops at the bottom side of the material and loud noise.

Checking: Lifting finger 3 must lift bobbin case 2 in such a way that the thread can slip laterally between bobbin case lug 6 and the gap of the throat plate without being hindered.

When bobbin case 2 is lifted ,the distance X between holding lug 6 and the gap of the throat plate must correspond to the thickness of the sewing thread. Sew some stitches manually, then check the distance x at the moment of the bobbin case lifting.

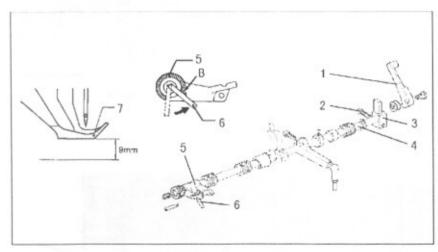
Adjustment: Screw off cover of the hook support, loosen clamping screw 5 at the control block 4,then,twist lifting finger 3 in such a way that the clearance in the lifting finger remains small. At last, tighten clamping screw 5 and screw on cover of the hook support.

If the lifting course is too small, it will no unhindered thread passage, if the lifting course is too small, it will cause loud noise and the bobbin case 5 will flung against the other side of the throat plate gap 7.

23) Adjusting the presser foot height(Fig.32)

The standard height of the outer presser foot 7 is mm when it is raised by the presser lifter bar 1.

- (1) Remove the belt cover.
- (2) Loosen the presser adjusting screw, to release the presser foot pressure.
- (3) Raise the presser lifters bar 1 and then loosen the screw 3.
- (4) Move the outer presser bar up or down to adjust so that the height of the outer presser foot 7 is 9 mm.
- (5) While the stopper pin 6 is touching against the notch B in the presser foot lifter connection 5 and while pushing the presser lifter shaft so that there is no play in the thrust direction, tighten the screw 2.
 - (6) Turn the presser adjusting screw to adjust the presser foot pressure.
 - (7) Install the belt guards.



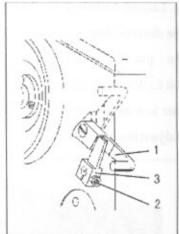
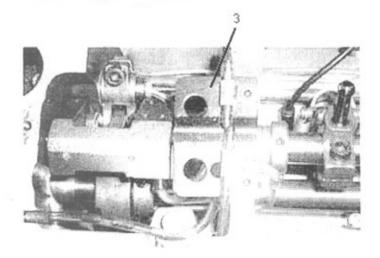


Fig.32

24) Adjusting the alternating presser foot movement amount(Fig.33&Fig.34)



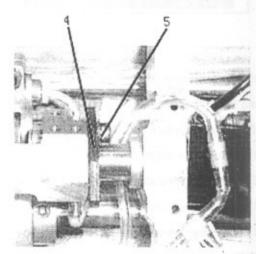


Fig.33

Maximum alternating presser foot movement amount. Carry out the following adjustment to set the maximum alternating movement amounts for the inner presser foot 1 and outer presser foot 2 to the maximum of 7 mm.

- a. Remove the upper plate.
- b. Remove the adjusting bracket 3.
- c. Loosen screw 5 of adjusting bracket collar 4.
- d. Adjust the adjusting bracket contact 4. If the adjusting bracket collar 4 is be installed at the highest position, the alternating presser foot movement amount is 1-6mm. If it is at the lowest position, the alternating presser foot movement amount is 1-7mm.
 - e. Tighten the screw 5.
 - f. Install the adjusting bracket 3.
- g. Loosen the bolt 6 and turn connecting lever 7 to adjust so that the distance from the outer edge of the arm to the outer edge of the pin 7 is 78 mm at this time. Then tighten the bolt 6.(When installing the upper plate, set the alternating presser foot movements dial to the "min." position.)

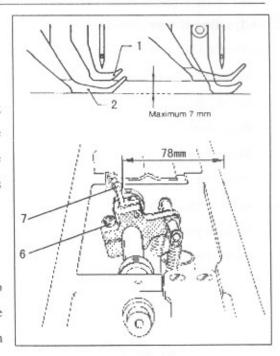
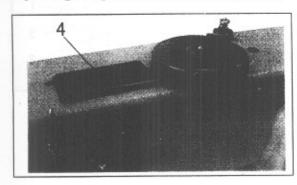


Fig.34

25) Adjusting the presser foot timing(Fig.35)



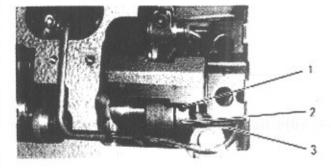


Fig.35

When the presser feet are lowered and the machine pulley is turned toward the user. The inner presser foot should touch the feed dog before the needle arrives at the feed dog. Then when the needle lifts up, the tip of the needle should move away from the feed dog before the inner presser foot moves away.

- (1) Remove the upper cover 4.
- (2) Loosen the two screws 1.
- (3) Turn the machine pulley until the needle tip and the feed dog's up face is the same plane.
- (4) Turn inner presser cam2 to adjust so that the point of inner presser cam is facing straight up.
- (5) Tighten the screws 1.
- (6) When installing the upper plate 4, set the alternating presser foot movement dial to the "MIN." position.

26) Driving knife adjustment

In resting position the rear edge of the driving knife should be flush with the front edge of the counter-knife, which have been showed by Fig.36.

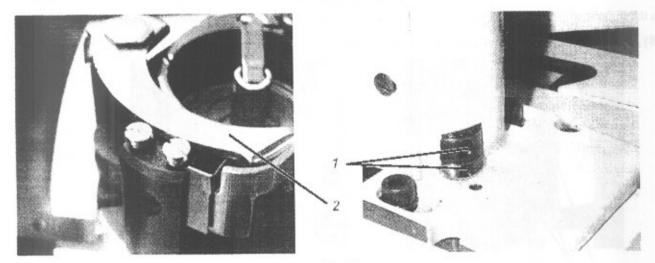


Fig.36

The fixed knife should abut on the thread pulling knife along its total width.

The pivoting driving knife should abut on the fixed knife after approx.1/3 of its width.

The driving knife must not collide with the bobbin case.(Fig.37)

The clearance between the lower blade edge of the driving knife a and the lower surface of the inner rotary hook b should be 0.3-0.4mm..

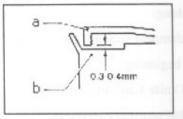


Fig.37

Checking:

In Fig.36,loosen two screws 1 for adjusting the resting position of the driving knife and adjust the knife according to the standard, then tighten screws 1.

ATTENTION:

Check the axial clearance of the knife shaft when tightening the screws 1. The driving knife must be easily movable and the axial clearance as low as possible.

27) Adjusting the thread trimming timing(Fig.38)

Checking: The moment of knife swiveling is fixed by the position of the cam 2, When the thread lever is in position "up", the roller 7 should abut on the highest point of the cam 2

The roller should not touch the cam while sewing. The distance between roller and cam should amount to 0.1mm.

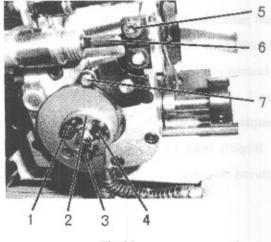
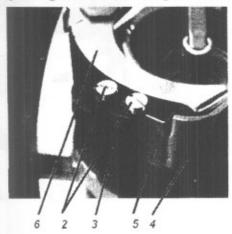


Fig.38

Adjustment: When adjust roller to cam, first, loosen screw 5 for adjusting the distance between roller and cam, then twist piston rod 6 in order to adjust the distance, at last ,tighten screw 5.

Turn cam adjustment: Loosen screw 1,3 and 4 at the cam, then, twist cam 2 in such a way that the roller abut on the highest point of the cam when the thread lever is in position "up", at last tighten screws 1,3 and 4 again.

28) Adjusting the fixed knife position and bobbin thread clamping(Fig.39)



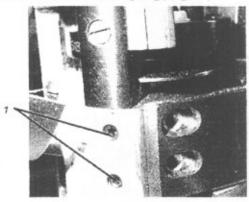


Fig.39

Checking:

The clamping spring 5 has the function to hold the cut bobbin thread in order to avoid skipped stitches at the seam beginning.

Fixed knife 4 and driving knife 6 must be in parallel position standing under a slight cutting pressure.

Parallel position correction

Loosen screw 3 slightly for adjusting the parallel position of thread pulling knife 6 and counter-knife 4,then change counter-knife 4 by setting the screws 2 in such a way that the edges of thread pulling knife and counter-knife are in parallel position. Tighten screw 3 at last.

Cutting pressure adjustment

The knives should guarantee a safe cut at the lowest possible pressure of the counter-knife against the thread pulling knife. This is normally the case when the edge of the counter-knife just touches the thread pulling knife with a knife overlapping of 1/3.

Loosen screws1, then turn counter-knife support in such a way that the condition is fulfilled, at last ,tighten screw 1.

Clamping adjustment

Slightly bend the bobbin thread clamp for correcting the clamping and make a test cut by hand and check the thread clamping.

29) Safety clutch(Fig.40)

The standard safety clutch 2 in the lower toothed belt wheel protects the hook from being displaced or damaged in case of thread jamming in the hook path. When the hook is blocked, the safety clutch 2 must come out.

- (1) Set free blocked hook.
- (2) Stick a pin in drill-hole 1 of the outer clutch disc.
- (3) Turn the pulley until the pin can be stuck in the drill-holes of both clutch parts.
- (4) Turn the pulley forwards and backwards until the hook is freely movable again.
 - (5) Pull out pin.
- (6) Hold down hook and turn the pulley until safety clutch 2 engages.

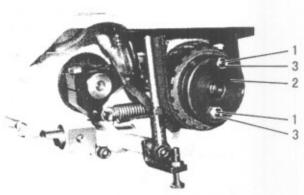
Adjust transmittable torque

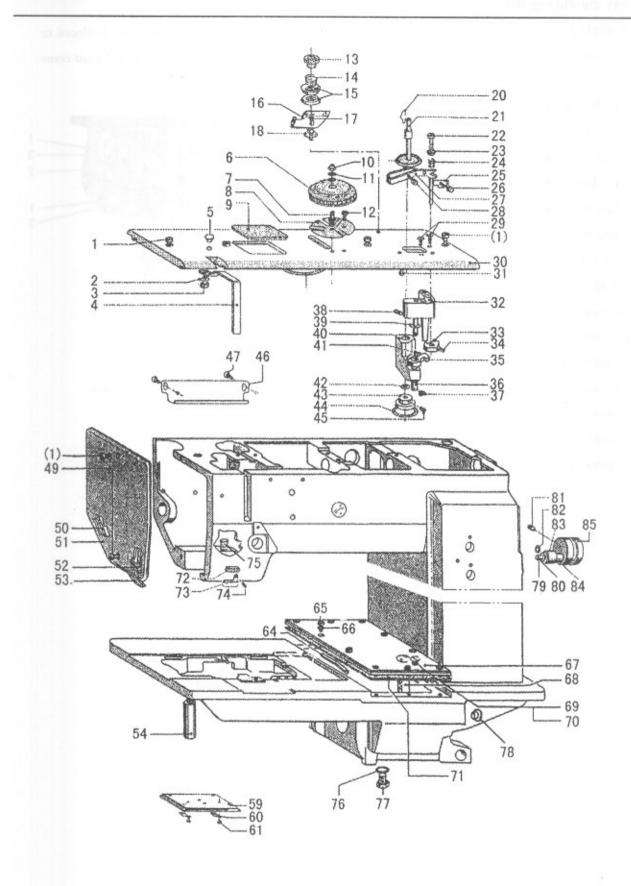


Standard checking

The supplier by means of a torque spanner should adjust the torque transmittable from safety clutch.

- (1) Loosen counter-nuts 3.
- (2) Adjust torque
- (3) Tighten counter-nuts 3 again.



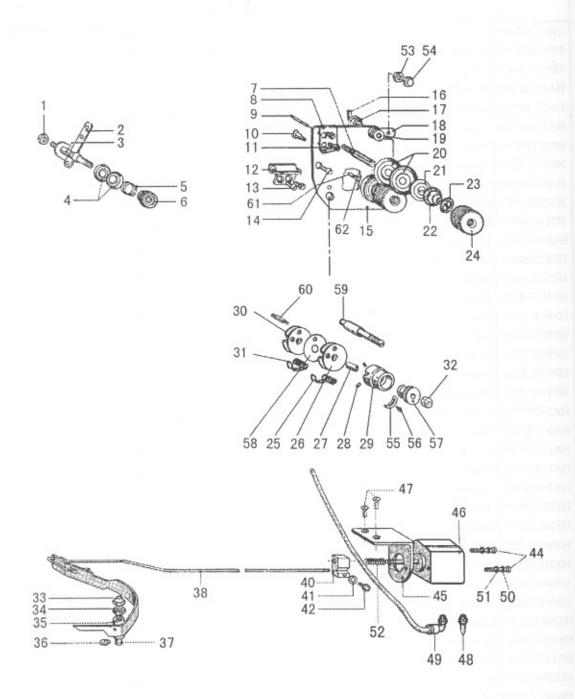


A.ARM BED AND ITS ACCESSORIES

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|--------------------------|---------------------------|---|-----|----|---|
| A01 | HF914B8001 | Screw M5×12 | 5 | 5 | 5 | |
| A02 | H005001040 | Washer | 1 | 1 | 1 | 10 m |
| A03 | H415040080 | Screw | 1 | 1 | 1 | M4×8 |
| A04 | HF927B8001 | Thread take-up cover | 1 | 1 | 1 | ETH COLUMN |
| A05 | HF930B8001 | Plug | 1 | 1 | 1 | 243 |
| A06 | HF933B8001 | Dial | 1 | 1 | 1 | (41) |
| A07 | HF935B8001 | Dial shaft | 1 | 1 | 1 | 7.51 |
| A08 | HF936B8001 | Guard plate | 1 | 1 | 1 | 7 10 |
| A09 | HF931B8001 | Cover | 1 | 1 | 1 | |
| A10 | H003045040 | Hexagonal nut | 1 | 1 | 1 | M4 |
| A11 | H005001040 | Washer | 1 | 1 | 1 | |
| A12 | H401040060 | Screw | 1 | 1 | 1 | M4×6 |
| A13 | HA710B0671 | Pre-tension adjusting nut | 1 | 1 | 1 | 0 0 0 0 0 0 |
| A14 | | Thread tension spring | 1 | 1 | 1 | 100000000000000000000000000000000000000 |
| A15 | HA310B0705 | Thread tension discs | 2 | 2 | 2 | |
| A16 | H6736B8001 | Thread guide | 1 | 1 | 1 | |
| A17 | | Thread tension stud | 1 | 1 | 1 | The second second |
| 118 | H4728H8001 | Washer | 1 | 1 | 1 | 1000 |
| A20 | | Fixing clamp | 1 | 1 | 1 | |
| A21 | | Winder shaft | 1 | 1 | 1 | |
| A22 | H401030120 | Screw | 1 | 1 | 1 | M3×12 |
| A23 | HF952B8001 | Disc | 1 | 1 | 1 | |
| A24 | H5731F8001 | Presser spring | 1 | 1 | 1 | 100 |
| A25 | HF954B8001 | | 1 | 1 | 1 | |
| A26 | H401030040 | | 1 | 1 | 1 | M3×4 |
| A27 | | Release lever | 1 | 1 | 1 | |
| A28 | H401030120 | | 1 | 1 | 1 | M3×12 |
| A29 | H403040080 | E. 2000 | 2 | 2 | 2 | M4×8 |
| A30 | HF921B7101 | | 1 | 1 | 1 | |
| A31 | H901030080 | | 1 | 1 | 1 | |
| A32 | | Winder block | 1 | 1 | 1 | |
| A33 | | Release cam | 1 | 1 | 1 | |
| A34 | H431050060 | | 1 | 1 | 1 | M5×6 |
| A35 | HF958B8001 | | 1 | 1 | 1 | |
| A36 | HF955B8001 | | 1 | 1 | 1 | |
| A37 | | E-type stop ring 3.5 | 1 | 1 | 1 | |
| A38 | | Presser spring | 1 | 1 | 1 | |
| A39 | HF957B8001 | | 1 | 1 | 1 | |
| | HF960B8001 | | 1 | | | |
| A40 A41 | | Presser spring | 1 | 1 | 1 | |
| | | | | 1 2 | 1 | |
| A42 A43 | HF966B8001 HF967B8001 | | 2 | 2 | 2 | |

A.ARM BED AND ITS ACCESSORIES

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|------------------------|----|----|----|---|
| A44 | HF969B8001 | Rubber ring | 1 | 1 | 1 | |
| A45 | H431050050 | Screw | 1 | 1 | 1 | M5×5 |
| A46 | HF999B8001 | Cord cover | 1 | 1 | 1 | |
| A47 | H7331G8001 | Screw | 1 | 1 | 1 | |
| A49 | HF915B8001 | Screw M5×12 | 1 | 1 | 1 | |
| A50 | HF918B8001 | Bar | 1 | 1 | 1 | |
| A51 | HF913B8001 | Face plate | 1 | 1 | 1 | |
| A52 | HF919B8001 | Bar | 1 | 1 | 1 | |
| A53 | HF920B8001 | Oil pillow | 1 | 1 | 1 | |
| A54 | HF998B8001 | Leg | 1 | 1 | 1 | |
| A59 | HF985B8001 | Slide Plate | 1 | 1 | 1 | |
| A60 | HF986B8001 | Spring for slide plate | 2 | 2 | 2 | |
| A61 | H401020025 | Screw | 2 | 2 | 2 | M2×2.5 |
| A64 | HF938K8001 | Pipe | 1 | 1 | 1 | |
| A65 | | Screw M5×12 | 10 | 10 | 10 | |
| A66 | HF997B8001 | Gasket | 10 | 10 | 10 | |
| A67 | HF991B8001 | Cover | 1 | 1 | 1 | |
| A68 | HF992B8001 | | 1 | 1 | 1 | |
| A69 | HF993B8001 | | 1 | 1 | 1 | |
| A70 | HF994B8001 | | 1 | 1 | 1 | |
| A71 | HF995B8001 | | 1 | 1 | 1 | |
| A72 | H3108B0692 | | 1 | 1 | 1 | |
| A73 | H3108B0691 | | 1 | 1 | 1 | |
| A74 | HF938C8001 | | 1 | 1 | 1 | |
| A75 | HA307B0674 | | 1 | 1 | 1 | |
| A76 | HF90AB8001 | | 2 | 2 | 2 | |
| A77 | | Screw | 1 | 1 | 1 | M10×1 |
| A78 | HG605H8001 | | 1 | 1 | 1 | |
| A79 | HF981I8001 | | 1 | 1 | 1 | 100000000000000000000000000000000000000 |
| A80 | | Washer | 2 | 2 | 2 | |
| A81 | | Screw | 1 | 1 | 1 | M8×12 |
| A82 | | E-type stop ring 6 | 1 | 1 | 1 | |
| A83 | 628ZZ | Bearing | 2 | 2 | 2 | 132 1990090111 |
| A84 | HF980I8001 | Spacer | 1 | 1 | 1 | |
| A85 | HF979I8001 | Belt tensioner | 1 | 1 | 1 | 2 5358802231 |
| | | | | | | |
| | | | | | | 31.113 |
| | | | | | | 11 300 |
| | | | | | | CONTRACTOR |
| | | | | | | 100000000000000000000000000000000000000 |
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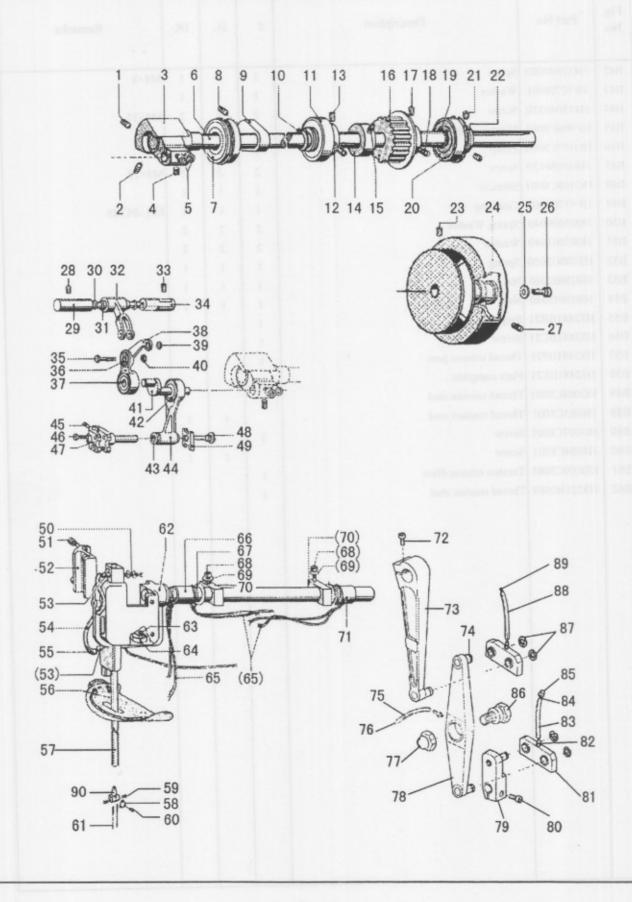


B.THREAD TENSION REGULATOR MECHANISM

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|--------------------------|------------------------------|--------|----|----|---------------|
| B01 | H003002050 | Nut | 2 | 1 | 1 | M5 |
| B02 | HF930C8001 | Thead hook | 2 | 1 | 1 | |
| B03 | | Thread tension stud | 2 | 1 | 1 | |
| B04 | | Thread tension discs | 2 | 1 | 1 | |
| B05 | | Tension spring | 2 | 1 | 1 | |
| B06 | | Tension adjusting nut | 2 | 1 | 1 | la Hazak |
| B07 | | Thread tension stud | 1 | 1 | 1 | |
| B08 | HF917C8001 | | 1 | 1 | 1 | |
| B09 | | Thread tension releasing pin | 1 | 2 | 2 | |
| B10 | | Shoulder screw | 2 | 2 | 2 | |
| B11 | H7316B8001 | | 2 | 2 | 2 | |
| B12 | HG005C8001 | | 1 | ١. | ١. | |
| B12 B13 | HF925C8001 H7322B8001 | | | 1 | 1 | |
| B14 | H7322B8001 | | 2 | 2 | 2 | |
| B15 | HF905C8001 | | 2 | 2 | 2 | |
| B16 | HF923C8001 | | 1 | 1 | 1 | |
| B17 | HF924C8001 | | 1 | 1 | 1 | |
| B18 | | Tension release plate | 1 | 1 | | |
| B19 | HF916C8001 | 1 | 1 | 1 | 1 | |
| B20 | HA310B0705 | | 4 | 4 | 4 | |
| B21 | | Tension release discs | 2 | 2 | 2 | |
| B22 | | Tension spring | 1 | 1 | 1 | |
| B23 | HA115B7010 | | 2 | 2 | 2 | |
| B24 | HA310B0701 | | 2 | 2 | 2 | |
| B25 | | Thread take-up spring | 1 | _ | _ | |
| B26 | | Plate complete | 1 | 1 | ١, | |
| B27 | H32481B821 | | 1 | | 1 | 5.755 |
| B28 | H32481B521 | | 2 | | | 1 2 2 2 2 2 2 |
| B28 | H431050050 | Screw | 1 1000 | 1 | 1 | |
| B29 | H32481B621 | Take-up spring guide | 1 | | | |
| B30 | H32481BD21 | Plate complete | 1 | 1 | 1 | 100 |
| B31 | H4713C8001 | Thread take-up spring | 1 | 1 | 1 | 107 |
| B32 | H32481B721 | Thumb nut | 1 | 1 | 1 | |
| B33 | H003045050 | Nut | 1 | 1 | 1 | M5 |
| B34 | H003002050 | Nut | 1 | 1 | 1 | M5 |
| B35 | HF918C8001 | Release lever | 1 | 1 | 1 | |
| B36 | H007013050 | E-type stop ring 5 | 1 | 1 | 1 | |
| B37 | HF919C8001 | Bolt | 1 | 1 | 1 | |
| B38 | HF921C8001 | Hook | 1 | 1 | 1 | |
| B39 | H4710C8001 | Tension spring | 1 | 1 | 1 | |
| B40 | HG110C8001 | Block | 1 | 1 | 1 | 1 16 |
| B41 | H005001040 | Washer | 1 | 1 | 1 | |

B.THREAD TENSION REGULATOR MECHANISM

| g. o. | Part No. | Description | 2 | 1L | 1R | Remarks |
|----------|-----------------------------|-----------------------|------|----|---------|-------------|
| 42 | H415040080 | Screw Screw | 0 19 | î | 8 1 | M4×8 |
| 343 | HF92718001 | Washer | 1 | 1 | 1 | |
| 344 | H415040350 | Screw | 2 | 2 | 2 | M4×35 |
| 345 | HF906C8001 | Magnet support | 1 | 1 | 1 | LAN" |
| 346 | HG107C8001 | Pump | 1 | 1 | 1 | 32 |
| 347 | H403050120 | Screw | 2 | 2 | 2 | M5×12 |
| 348 | HG108C8001 | Silencer | 1 | 1 | 1 | |
| 349 | HF937E8001 | Coupling | 1 | 1 | 1 | EPL-04 M5 |
| 350 | H005009040 | Spring Washer | 2 | 2 | 2 | |
| B51 | H005001040 | Washer | 2 | 2 | 2 | |
| B52 | H3100G2050 | Spring | 1 | 1 | 1 | 28 30 32 33 |
| B53 | H003002040 | Nut | 1 | 1 | 1 | |
| B54 | H003045040 | Nut | 1 | 1 | 1 | |
| B55 | H32481BB21 | Stopper | 1 | | 10 | 29 31 10 |
| B56 | H32481BC21 | Screw | 1 | | 10- | A BOTTON |
| B57 | H32481B921 | Thread tension post | 1 | | 17- | |
| 358 | H32481BE21 | Plate complete | 1 | | A | 13 |
| 359 | HG008C8001 | Thread tension stud | 1 | | | |
| 359 | H4805C8001 | Thread tension stud | | 1 | 1 | 45 |
| 360 | HG007C8001 | Screw | 1 | | | |
| B60 | H4804C8001 | Screw | | 1 | 1 | 3.53 |
| B61 | HG009C8001 | Tension release discs | 1 | | | |
| B62 | H3221B0689 | Thread tension stud | 1 | | | |
| | 88 18 28 98 18. | | | | 80 10 8 | |



C.ARM SHAFT MECHANISM

| Fig. No. | Part No. | Description | 2 | 1L | 1R | | Remarks | |
|-------------|--|-----------------------------|---|----|----|-----------------|--------------|---|
| C01 | H6715C8001 | Screw | 1 | 1 | 1 | tud albas | N 100sOvveni | H |
| C02 | H431060080 | Screw | 1 | 1 | 1 | M6×8 | | |
| C03 | HF907D8001 | Crank | 1 | 1 | 1 | William | | |
| C04 | H431060060 | Screw | 1 | 1 | 1 | M6×6 | | |
| C05 | HF914B8001 | Screw | 2 | 2 | 2 | of balance | | |
| C06 | HF905D8001 | Upper shaft | 1 | 1 | 1 | alocate while | | |
| C07 | H3205J0662 | Ball bearing(L) | 1 | 1 | 1 | diliptative Di | | |
| C08 | H431080100 | Screw | 1 | 1 | 1 | M8×10 | | |
| C09 | HF913D8001 | Counterweight | 1 | 1 | 1 | shing shirt | | |
| C10 | H007009200 | Retainer ring | 1 | 1 | 1 | gailest finding | | |
| C11 | HF921D8001 | Ball bearing(M) | 1 | 1 | 1 | orgin file | | |
| C12 | HF918D8001 | Bushing | 1 | 1 | 1 | o. Dalatio la | | |
| C13 | H431060060 | Screw | 2 | 2 | 2 | M6×6 | | |
| C14 | HF943D8001 | Bobbin winder driving wheel | 1 | 1 | 1 | pel eller | | |
| C15 | H431060100 | Screw | 2 | 2 | 2 | M6×10 | | |
| C16 | HG107D8001 | Belt pulley(U) | 1 | 1 | 1 | Sure born | | |
| C17 | H431060080 | Screw | 1 | 1 | 1 | M6×8 | | |
| C18 | H429060100 | Screw | 1 | 1 | 1 | M6×10 | | |
| C19 | H007009200 | Retainer ring | 1 | 1 | 1 | 1010 | | |
| C20 | | Ball bearing(R) | 1 | 1 | 1 | 9100 | | |
| C21 | H431060080 | Screw | 2 | 2 | 2 | M6×8 | | |
| C22 | HF929D8001 | Bushing | 1 | 1 | 1 | f and alber | | |
| C23 | H431060100 | Screw | 1 | 1 | 1 | M6×10 | | |
| C24 | HG109D8001 | Pulley | 1 | 1 | 1 | factores (| | |
| C25 | H005008080 | Washer | 1 | 1 | 1 | Shike I | | |
| C26 | | Screw | 1 | 1 | 1 | M8×25 | | |
| C27 | H429060100 | Screw | 1 | 1 | 1 | M6×10 | | |
| C28 | | Screw | 1 | 1 | 1 | M5×6 | | |
| C29 | | Thread take-up pin | 1 | 1 | 1 | MISHO | | |
| C30 | HF918G8001 | | 2 | 2 | 2 | will will | | |
| C31 | | Needle bearing | 2 | 2 | 2 | (Hitspidt | | |
| C32 | | Thread take-up support | 1 | 1 | 1 | | | |
| C33 | | Screw | 1 | 1 | 1 | M5×6 | | |
| C34 | | Thread take-up pin bushing | 1 | 1 | 1 | MISHO | | |
| C35 | | Support screw | 1 | 1 | 1 | niele | | |
| C36 | HF909G8001 | | 1 | 1 | 1 | 200 | | |
| C37 | HF910G8001 | | 1 | 1 | 1 | | | |
| C38 | RESIDENCE DE LA COMPANION DE L | Thread take-up lever | 1 | 1 | 1 | vests boy to | | |
| C39 | HF908G8001 | | 1 | 1 | 1 | Z male-sum | | |
| C40 | | Nut | , | | 1 | M4 | | |
| C41 | | Thread take-up crank | 1 | 1 | 1 | M4 | | |
| C42 | HF923G8001 | | | 1 | 1 | | | |
| C43 | HF926G8001 | | 2 | 2 | 2 | | | |

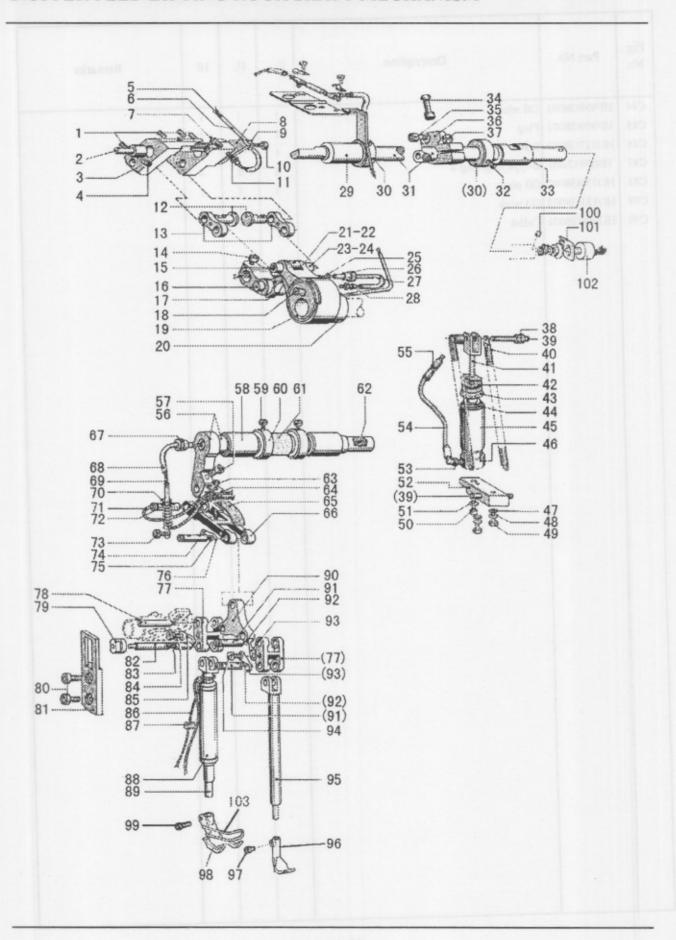
CARM SHAFT MECHANISM

C.ARM SHAFT MECHANISM

| Fig. No. | Part No. | Des | cription | 2 | 1L | 1R | Remarks |
|-------------|-------------|-----------------------|----------|---|----|--------|---|
| C44 | HF922G8001 | Needle bar link | | 1 | 1 | 1 | WHOSE DOWNSTON IN |
| C45 | H431030050 | Screw | | 1 | 1 | 1 | M3×5 |
| C46 | H401040100 | Screw | | 2 | 2 | 2 | M4×10 |
| C47 | HF924G8001 | Needle bar holder | | 1 | 1 | 1 | West 550000 Eagew |
| C48 | HF928G8001 | Threaded bolt | | 1 | 1 | 1 | Name 100 State of the State of |
| C49 | HF927G8001 | Slide block | | 1 | 1 | 1 | Bulk suppl. (1924) (Specialist) |
| C50 | HF938G8001 | Oil wick(Short) | | 1 | 1 | 1 | DE SEESTE Bell bearing |
| C51 | H415040100 | Screw | | 2 | 2 | 2 | M4×10 |
| C52 | HF933G8001 | Slide guide | | 1 | 1 | 1 | S SPRINGERS CONSTRUCTION |
| C53 | HF939G8001 | Oil feeding pipe | | 2 | 2 | 2 | th 10007009290 Resumering |
| C54 | HF936G8001 | Oil pipe | | 1 | 1 | 1 | Dear Deep (Deep) Seal learning |
| C55 | HF937G8001 | Oil wick(Long) | | 1 | 1 | 1 | That mount is worth |
| C56 | HF940G7101 | Rubber | | 1 | 1 | 1 | West State Street |
| C57 | HG005G8001 | Needle bar | | 1 | | rent s | nice states 1005CRAPUL N |
| C57 | HF970G8001 | Needle bar | | | 1 | 1 | 2 SM31060100 Science |
| C58 | HG007G8001 | Thread guide | | 1 | | | HOLOTONO Belt pullsyfil |
| C58 | HF971G8001 | Thread guide | | | 1 | 1 | 7 SELLIDODORO Screw |
| C59 | H428030030 | Screw | | 2 | 1 | 1 | M3×3 |
| C60 | HG008G8001 | Screw | | 1 | | | SECTION TO PROBLEM FOR |
| C60 | HF972G8001 | Screw | | | 1 | 1 | Rational Hall Interesting |
| C61 | JZDP1700P23 | DP×17 #23 | | 2 | 1 | 1 | wood -mountrale I |
| C62 | HF931G7101 | Needle bar bracket | | 1 | 1 | 1 | 2 DESTROSON Bushing |
| C63 | H403040100 | Screw | | 1 | 1 | 1 | M4×10 |
| C64 | HF943G8001 | Oil satchel | | 1 | 1 | 1 | Figure 100000 Printey |
| C65 | HF947G8001 | Oil wick | | 3 | 3 | 3 | 1001001000 Washer |
| C66 | HF927E8001 | Bushing(L) | | 1 | 1 | 1 | d Batt 5080250 Serww |
| C67 | HF968G8001 | Support disc | | 2 | 2 | 2 | 7 343900100 Serew |
| C68 | H415040120 | Screw | | 2 | 2 | 2 | M4×12 |
| C69 | H005001040 | Washer | | 2 | 2 | 2 | 1 HP1303001 Thread take- |
| C70 | HF965G8001 | Collar | | 2 | 2 | 2 | Testano 10080810/01 |
| C71 | HF924E8001 | Bushing(R) | | 1 | 1 | 1 | Emed atback! 1038SH ESTEL 1 |
| C72 | H415060200 | Screw | | 1 | 1 | 1 | M6×20 |
| C73 | HG133G8001 | Upper feed connecting | rod | 1 | 1 | 1 | 1 Hamostono Schen |
| C74 | HF951G8001 | Shoulder screw | | 4 | 4 | 4 | pents bend 100001 1000 |
| C75 | HG130G8001 | Oil pipe | | 1 | 1 | 1 | PERTINDED Deposit seror |
| C76 | HG131G8001 | Oil wick | | 1 | 1 | 1 | goberil Totalogetti I |
| C77 | H003045080 | Nut | | 1 | 1 | 1 | gebas8 1008001096 |
| C78 | HG125G7101 | Pull rod assy | | 1 | 1 | 1 | Particular Principle |
| C79 | HF949G8001 | Connecting lever | | 1 | 1 | 1 | spinorial thosospecial |
| C80 | H415060160 | Screw | | 1 | 1 | 1 | M6×16 |
| C81 | HF952G7101 | Pull rod | | 2 | 2 | 2 | -sales factored Transcopers |
| C82 | HF956G8001 | Oil joint | | 3 | 3 | 3 | 1 September Bostons |
| C83 | HF957G8001 | Oil pipe | | 1 | 1 | 1 | Sendoust 1008000000 |

C.ARM SHAFT MECHANISM

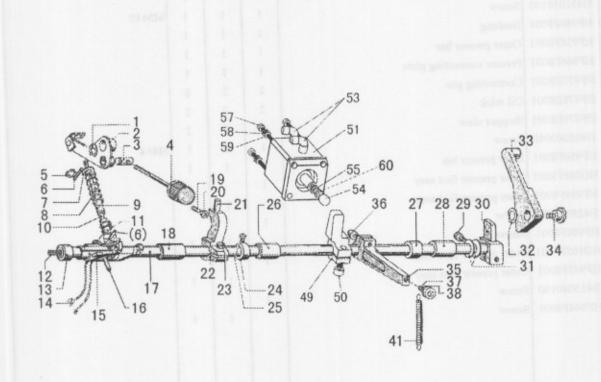
| ig. Vo. | Part No. | Description | | 2 | 1L | 1R | Remarks | |
|------------|---|--------------------|----------------------|---------|------|-------|---------|--|
| 284 | HF958G8001 | Oil wick | | 1 | 1 | 1 | | |
| 285 | HF959G8001 | Plug | | 1 | 1 | 1 | 1.00 | |
| 286 | HG127G8001 | Screw | 776 | 1 | 1 | 1 | | |
| 287 | | E-type stop ring 8 | | 4 | 4 | 4 | | |
| 88 | HG130G8002 | | 00 | 1 | 1 | 1 | | |
| 89 | HG131G8002 | | | 1 | 1 | 1 | (-SI | |
| 90 | HG006G8001 | Collet | 15- | 1 | | | - 81 | |
| | as Tables | | -69 | | | | - M | |
| | 47200 | | | 701 | | | - 81 | |
| | 102 | 73 - 62 | | | | | -01 | |
| | | 83 | | | | | - 81 | |
| | | | /4411 | | | | -61 | |
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| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|-------------|-----------------------|---|----|----|--|
| D01 | H428050080 | Screw | 4 | 4 | 4 | M5×8 |
| D02 | HF919E8001 | Support pin | 1 | 1 | 1 | min totalistical |
| D03 | HF906E8001 | Adjusting bracket(L) | 1 | 1 | 1 | LUPASSICION COLORS |
| D04 | H428050080 | Screw | 1 | 1 | 1 | M5×8 |
| D05 | HF912E8001 | Oil wick | 1 | 1 | 1 | HEGHERROT Dress |
| D06 | HF911E8001 | Oil pipe | 1 | 1 | 1 | Lateral construction |
| D07 | HF908E8001 | | 2 | 2 | 2 | THEODY CONTROL |
| D08 | HF913E8001 | Plate | 1 | 1 | 1 | H005601056 NAGAGE |
| D09 | H005018050 | Washer | 1 | 1 | 1 | HAT SOSOTRO Scores |
| D10 | H415050100 | Screw | 1 | 1 | 1 | M5×10 |
| D100 | H431040040 | Screw | 1 | 1 | 1 | M4×4 |
| D101 | HF987E8001 | Holder | 1 | 1 | 1 | Manager Locality Policy |
| D102 | HF922E8001 | Potentiometer control | 1 | 1 | 1 | constituent anount rough |
| D11 | HF956G8001 | Oil joint | 1 | 1 | 1 | 10002876231 |
| D12 | HF917E8001 | Link pin | 2 | 2 | 2 | chadana instruction |
| D13 | HF916E8001 | Link | 2 | 2 | 2 | Barra Tot cacangit |
| D14 | H4150,60200 | Screw | 1 | 1 | 1 | M6×20 |
| D15 | HF951E8001 | Connecting lever(R) | 1 | 1 | 1 | LEADER PROPERTY OF THE PROPERT |
| D16 | HF956E8001 | Pin | 1 | 1 | 1 | 2000 DECEMBER 1000 DECEMBER 10 |
| D17 | HF953E7101 | Link(R) | 1 | 1 | 1 | Later September (945) |
| D18 | HA104D0652 | Plug | 1 | 1 | 1 | Secured tony species |
| D19 | HF942E8001 | Inner presser cam | 1 | 1 | 1 | THE INTERNATIONAL |
| D20 | H428060060 | Screw | 2 | 2 | 2 | M6×6 |
| D21 | HF946E8001 | Inner presser rod | 1 | 1 | 1 | |
| D22 | HF947E8001 | Bearing | 1 | 1 | 1 | to the state of th |
| D23 | HF948E8001 | Rod pin | 1 | 1 | 1 | THE RESERVE TO SECURE |
| D24 | HF949E8001 | Oil wick | 1 | 1 | 1 | Teach 100801966 |
| D25 | HF960E8001 | Oil wick | 1 | 1 | 1 | |
| D26 | HF961E8001 | Plug | 1 | 1 | 1 | wind Ito] 1000 Telegr |
| D27 | HF959E8001 | Oil pipe | 1 | 1 | 1 | Manual Int. a Constitution of |
| D28 | HF956G8001 | Oil joint | 1 | 1 | 1 | Employ Investored |
| D29 | HF924E8001 | Bushing(L) | 1 | 1 | 1 | JOHN IN TWO SOFTS |
| D30 | HF923E8001 | Collar | 2 | 2 | 2 | #155 TURBEST WELL |
| D31 | HF921E8001 | Adjusting shaft | 1 | 1 | 1 | WINTERS DA GOAD TON |
| D32 | H431050050 | Screw | 2 | 2 | 2 | M5×5 |
| 033 | HF927E8001 | Bushing(R) | 1 | 1 | 1 | AND TOOLINGS |
| D34 | | Ball pin | 1 | 1 | 1 | Sittle radificial triviacional |
| 035 | | Screw | 1 | 1 | 1 | M5×12 |
| 036 | | Lever(R) | 1 | 1 | 1 | THE THE SAME |
| 037 | | Screw | 1 | 1 | 1 | M6×20 |
| 038 | | Pipe | 2 | 2 | 2 | |
| 039 | HF914E8001 | | 2 | 2 | 2 | 2008-001 TOUR-0029 |
| 040 | HF918E8001 | | 2 | 2 | 2 | THE TOTAL STATE |

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|--------------------------|---------------|-----|----|----|--|
| D41 | HF933E8001 | Draught rod | 1 | 1 | 1 | an hopped tour services |
| D42 | HF936E8001 | Disc | 1 | 1 | 1 | ed gains had removed be- |
| 043 | HF935E8001 | Gasket | 1 | 1 | 1 | IMAROJORO Besew |
| 044 | HF934E8001 | Piston | 1 | 1 | 1 | John SO 1004311001 |
|)45 | HF931E8001 | Pipe | 1 | 1 | 1 | HERTTERON OR pare |
| 046 | HF932E8001 | Cylinder base | 1 | 1 | 1 | \$50 SO 100E310E9E |
|)47 | HF997B8001 | Gasket | 2 | 2 | 2 | 10581188305 bitter |
| 048 | H005001050 | Washer | 2 | 2 | 2 | 1003018030 Wester |
| 049 | H415050180 | Screw | 2 | 2 | 2 | M5×18 |
| 050 | H415040160 | Screw | 1 | 1 | 1 | M4×16 |
| 051 | H005001040 | Washer | 1 | 1 | 1 | HERVESON Rolley |
| 052 | HF943E8001 | Spacer | 1 | 1 | 1 | MOST 2001 Patentianers |
| 053 | HF937E8001 | Coupling(S) | 1 | 1 | 1 | HENNING TOURSELL |
| 054 | | Hose | 1 | 1 | 1 | nie skill regulit regil |
| 055 | HF939E8001 | Coupling(L) | 1 | 1 | 1 | WILL IMPERIOR |
| 056 | | Shaft | 1 | 1 | 1 | Het sommen severe |
| 057 | H415040120 | Screw | 1 | 1 | 1 | M4×12 |
| 058 | HF924E8001 | Bushing | 2 | 2 | 2 | LEASTERNOON IN |
|)59 | | Screw | 2 | 2 | 2 | M5×8 |
| 060 | HF923E8001 | Collar | 2 | 2 | 2 | MATERITY OR STREET |
| 061 | | Sponge | 1 | 1 | 1 | Topical International |
| 062 | | Oil wick | li | 1 | 1 | autorione de constitution |
| 063 | H415030060 | Screw | 1 | 1 | 1 | M3×6 |
| 064 | | Plate | | 1 | 1 | WISO TO THE RESERVE AND THE PARTY AND THE PA |
| D65 | | Oil satchel | li | 1 | 1 | me hell programmed |
| 066 | | Draught rod | 1 | 1 | 1 | 929 DO 100130990 |
| 067 | HF961E8001 | | 1 | 1 | 1 | 2014 NO 100130000 |
| 268 | HF983E8001 | | | | | 2013 1033-2196@ |
| D69 | HF984E8001 | | 1 | 1 | 1 | aging HO 1008 STOCKER |
| 070 | HF982E8001 | | 1 | 1 | 1 | FPSSCHROLL OH JOHN |
| 071 | HF986E8001 | | 1 ! | 1 | 1 | (DeniAud) tonrascen |
| 072 | HF977E8001 | | 1 | 1 | 1 | 11100 |
|)73 | | | 1 | 1 | 1 | |
| | H401040040 HF977E8001 | Screw | 1 | 1 | 1 | M4×4 |
|)74 | | | 1 | 1 | 1 | |
| 75 | HF978E8001 | | 1 | 1 | 1 | (E)gentus (COESTER) |
| 76 | | Stopper claw | 1 | 1 | 1 | miq That 1000 Eller |
| 77 | | Joint | 1 | 1 | 1 | 115050130 State |
| 078 | HF926F8001 | Pin | 1 | 1 | 1 | (37) 1501 (33) (33) |
|)79 | HF933F8001 | Slide block | 1 | 1 | 1 | 115060200 Scorey |
| 080 | HF914B8001 | Screw | 2 | 2 | 2 | 2012 14073396 |
| 081 | | Guide | 1 | 1 | 1 | PH (0003BH) |
| 082 | HF928F8001 | | 1 | 1 | 1 | gaings (general) |
| 083 | HF930F8001 | Oil wick | 1 | 1 | 1 | |

| Fig. No. Part No. | Description | 2 | 1L | 1R | Remarks |
|--------------------------------|----------------------------|----|------|----|--------------|
| D84 HF932F800 | 1 Screw | 1 | 1 | 1 | |
| D85 HF979E800 | 1 Stopper claw | 1 | 1 | 1 | |
| | 1 Oil wick | 1 | 1 | 1 | |
| D87 H43105010 | 0 Screw | 1 | 1 | 1 | M5×10 |
| D88 HF940F800 | 1 Bushing | 1 | 1 | 1 | |
| | 1 Outer presser bar | 1 | 1 | 1 | |
| | 1 Presser connecting plate | 1 | 1 | 1 | |
| | 1 Connecting pin | 2 | 2 | 2 | |
| | 1 Oil wick | 2 | 2 | 2 | |
| | 1 Stopper claw | 2 | 2 | 2 | |
| D94 H40104004 | | 1 | 1 | 1 | M4×4 |
| | 1 Inner presser bar | | 1 | | 1V14×4 |
| | Inner presser foot assy | 1 | 1 91 | 1 | ALC: NO. |
| | 1 Inner presser foot assy | 1 | | | - B |
| D97 H42804008 | | | 1 | 1 | |
| D97 HF960F800 | | 1 | | | FF (8)-28 |
| | | | 1 | 1 | |
| | 1 Outer presser foot assy | 1 | | 22 | 7 11 1 51 |
| | 1 Outer presser foot assy | 24 | 1 | 1 | 11 / 11 - 61 |
| D99 H41504010 D99 HF944F800 | | 1 | 1 | 1 | 81 21 10 11 |
| | | | | | |

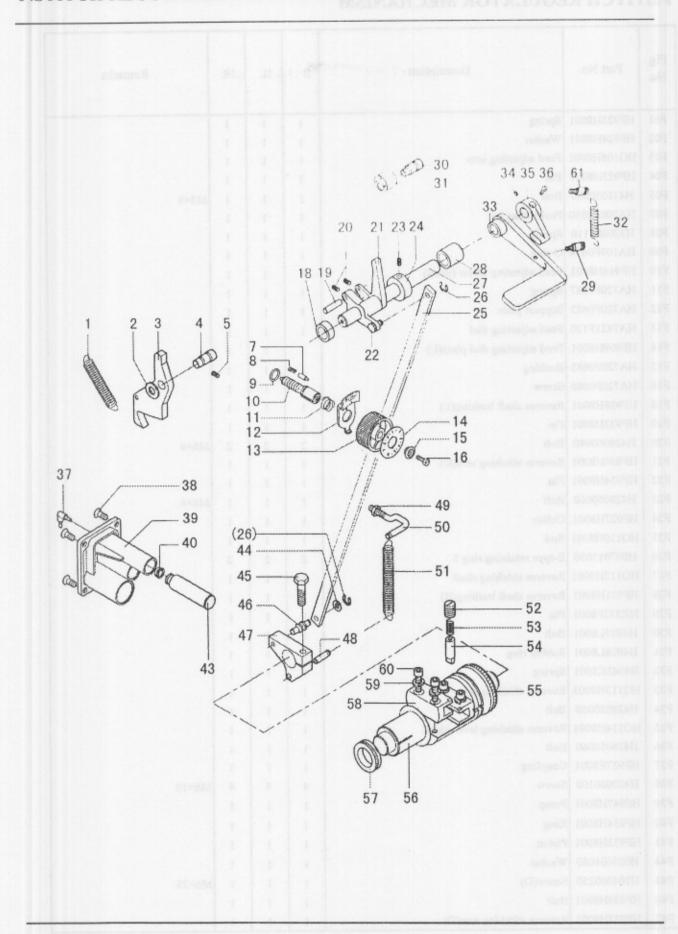


E.PRESSER FOOT ADVANCE MECHANISM

| Fig. No. | Part No. | Description | 2 | 1L | 1R | | Remarks |
|-------------|------------|-----------------------------------|---|----|----|-------------------|-----------|
| E01 | H007013080 | E-type retaining ring 8 | 1 | 1 | 1 | 1000 | 100000000 |
| E02 | HF965F7101 | Press adjusting plate assy | 1 | 1 | 1 | - general | |
| E03 | HF963F8001 | Pin | 1 | 1 | 1 | aglqtmlW | |
| E04 | HF961F7101 | Press adjusting dial | 1 | 1 | 1 | aniique Compiling | |
| E05 | H007013050 | E-type retaining ring 5 | 1 | 1 | 1 | W. guing We | |
| E06 | H612030080 | Spring pin | 2 | 2 | 2 | WHEN S | |
| E07 | HF976F8001 | Spring support (U) | 1 | 1 | 1 | My Anybig Mal | |
| E08 | HF972F8001 | Spring | 1 | 1 | 1 | toring its | |
| E09 | HF975F8001 | Hose | 1 | 1 | 1 | Territor A | |
| E10 | HF973F8001 | Shaft | 1 | 1 | 1 | | |
| E11 | HF974F8001 | Spring support (D) | 1 | 1 | 1 | | |
| E12 | H428080120 | Bolt | 1 | 1 | 1 | M8×12 | |
| E13 | HF905F8001 | Press-foot lifter shaft bush(L) | 1 | 1 | 1 | | |
| E14 | HF922F8001 | Oil wick | 1 | 1 | 1 | | |
| E15 | HF919F7101 | Press-foot lifter connection assy | 1 | 1 | 1 | | |
| E16 | H605050320 | Pin | 1 | 1 | 1 | | |
| E17 | HF904F8001 | Press bar lifter shaft | 1 | 1 | 1 | | |
| E18 | HF906F8001 | Spreader shaft bush(L2) | 1 | 1 | 1 | | |
| E19 | H424050160 | Set screw | 1 | 1 | 1 | | |
| E20 | H003002050 | Nut | 1 | 1 | 1 | | |
| E21 | HF997F8001 | Stopper | 1 | 1 | 1 | | |
| E22 | HF996F8001 | Crack | 1 | 1 | 1 | | |
| E23 | H415060160 | Screw | 1 | 1 | 1 | M6×16 | |
| E24 | HF910F8001 | Set screw collar | 1 | 1 | 1 | | |
| E25 | H401050060 | Screw | 1 | 1 | 1 | | |
| E26 | HF907F8001 | | 1 | 1 | 1 | | |
| E27 | HF909F8001 | Bushing | 1 | 1 | 1 | | |
| E28 | | Bushing(R2) | 1 | 1 | 1 | | |
| E29 | H415060200 | Screw | 1 | 1 | 1 | M6×20 | |
| E30 | HF913F8001 | Crack | 1 | 1 | 1 | | |
| E31 | HF915F8001 | Washer | 2 | 2 | 2 | | |
| E32 | H005014080 | Wave washer | 1 | 1 | 1 | | |
| E33 | HF916F8001 | | 1 | 1 | 1 | | |
| E34 | HF917F8001 | | 1 | 1 | 1 | | |
| E35 | HF980F8001 | Lever(U) | 1 | 1 | 1 | | |
| E36 | H415060160 | Screw | 1 | 1 | 1 | M6×16 | |
| E37 | H415050250 | Screw | 1 | 1 | 1 | M5×25 | |
| E38 | H003002050 | | 2 | 2 | 2 | M5 | |
| E41 | HG119F8001 | Main spring | 1 | 1 | 1 | | |
| E46 | H104060250 | Screw | 1 | 1 | 1 | M6×25 | |
| E47 | HF990F8001 | Knee lifter plate | 1 | 1 | 1 | | |
| E48 | H7316E8001 | Nut | 1 | 1 | 1 | | |
| E49 | HF90IF8001 | Crack | 1 | 1 | 1 | | |

E.PRESSER FOOT ADVANCE MECHANISM

| o. Part No. | 111 | Description | 2 | 1L | 1R | Remarks |
|--------------|----------------|-------------|------|---------|---------|--------------------------|
| 0 H415060160 | Screw | | 1 | 1 | 1 | IN NO. |
| 1 HF911F8001 | Pump | | 1 | 1 | 1 | SDA32×20 |
| 3 HF912M8001 | Windpipe jiont | | 2 | 2 | 2 | ΕΡL4-01 φ4-1/8" |
| 4 HF91BF8001 | Coupling | | 1 | 1 | 1 | 101711809 |
| 5 H005008060 | Spring Washer | | 1 | 1 | 1 | aton 1977-37 02.05.10700 |
| 7 H415040550 | Screw | | 4 | 4 | 4 | SEZOZIONO Spring prin |
| 8 H005008040 | Spring Washer | | 4 | 4 | 4 | ique grimpil 1008 1019 |
| 9 H005004040 | Washer | | 4 | 4 | 4 | Strict Spring |
| 0 HF91DF8001 | Washer | | 1 | 1 | 1 | 1008/12/V |
| | | | | | | SECTION STATE |
| | | | | | (CI) In | She fines Ship and |
| | S1=80A | | | | | 23000120 Bost |
| | 21-000 | | 63 | dust to | ala zoi | 5 tool-mm-1 100#1809 |
| | | | | | | BZ2F8001 Cill with |
| | | | Vent | erimon | 100 13 | Stirriot Presented In |
| | | | | | | 05000000 |
| | | | | | bole w | 100151000 Pensus bur 53 |
| | | | | 13.5 | dust l | Will TOO! Semister the |
| | | | | | | winners to 2 concerns |
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| | | | | | | 2010160 Sorre |
| | 91x646 | | | | | GERTINOT Set somewheat |
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| | | | | | | galdesci (000700 |
| | | | | | | (CR) anima(R2) |
| | | | | | | www.80 poc.0000 |
| | | | | | | DER COURS |
| | | | | | | ISF4001 Washer |
| | | | | | | reduce water pips (9) |
| | | | | | | used redul 1005 librar |
| | | | | | | TF 9001 Seraw |
| | | | | | | (U)see(U) |
| | | | | | | (O)18760 (01790) |
| | 914894 | | | | | 050230 Secolo |
| | 345×23 | | | | | 962050 Hust |
| | N/S | | | | | |
| | | | | | | grippe main spring |
| | Megs | | | | | 060150 Szewe |
| | | | | | | OF 6001 Hours Effer play |
| | | | | | | total total |

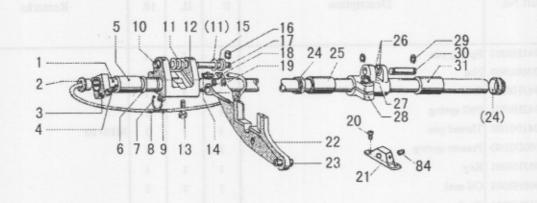


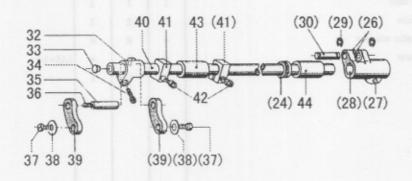
F.STITCH REGULATOR MECHANISM

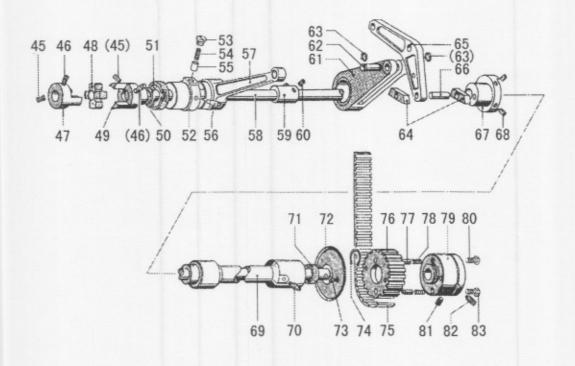
| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|-------------------------------|----|----|----|--------------|
| F01 | HF925H8001 | Spring | 1 | 1 | 1 | |
| F02 | HF924H8001 | Washer | 1 | 1 | 1 | |
| F03 | HG108H8001 | Feed adjusting arm | 1 | 1 | 1 | |
| F04 | HF923H8001 | Pin | 1 | 1 | 1 | |
| F05 | H431050080 | Bolt | 1 | 1 | 1 | M5×8 |
| F07 | HA700F2030 | Positioning pin | 1 | 1 | 1 | |
| F08 | H3200F2110 | Spring | 1 | 1 | 1 | |
| F09 | HA109F0674 | O ring | 1 | 1 | 1 | |
| F10 | HF914H8001 | Feed adjusting screw (short) | 1 | 1 | 1 | |
| F11 | HA720F0687 | Spring | 1 | 1 | 1 | |
| F12 | HA720F0683 | Support plate | 1 | 1 | 1 | |
| F13 | HA7421F120 | Feed adjusting dial | 1 | 1 | 1 | 8 8 8 |
| F14 | HF909H8001 | Feed adjusting dial plate(L) | 1 | 1 | 1 | |
| F15 | HA720F0685 | Bushing | 1 | 1 | 1 | |
| F16 | HA720F0686 | Screw | 1 | 1 | 1 | 1965 |
| F18 | HF928H8001 | Reverse shaft bushing(L) | 1 | 1 | 1 | 1 1 9 |
| F19 | HF932H8001 | Pin | 1 | 1 | 1 | -0 |
| F20 | H428060080 | Bolt | 2 | 2 | 2 | M6×8 |
| F21 | HF930H8001 | Reverse stitching arm(U) | 1 | 1 | 1 | |
| F22 | HF934H8001 | Pin | 1 | 1 | 1 | 82 |
| F23 | H428060060 | Bolt | 1 | 1 | 1 | M6×6 |
| F24 | HF927H8001 | Collor | 1 | 1 | 1 | 8E 18 |
| F25 | HG110H8001 | Rod | 1 | 1 | 1 | 14 July 1997 |
| F26 | H007013050 | E-tpye retaining ring 5 | 2 | 2 | 2 | (See 1 |
| F27 | HG112H8001 | Reverse stitching shaft | 1 | 1 | 1 | 100 Q FILE |
| F28 | HF931H8001 | Reverse shaft bushing(R) | 1 | 1 | 1 | |
| F29 | HK332F8001 | | 1 | 1 | 1 | |
| F30 | H4937L8001 | Bolt | 1 | 1 | 1 | |
| F31 | H4938L8001 | Rubber ring | 1 | 1 | 1 | |
| F32 | H4943K8001 | Spring | 1 | 1 | 1 | 3 |
| F33 | HG113H8001 | Reverse stitching lever | 1 | 1 | 1 | |
| F34 | H428050060 | | 1 | 1 | 1 | |
| F35 | HG114H8001 | Reverse stitching lever block | 1 | 1 | 1 | |
| F36 | H428050060 | | 1 | 1 | 1 | |
| F37 | HF937E8001 | | 1 | 1 | 1 | |
| F38 | H403060100 | | 4 | 4 | 4 | M6×10 |
| F39 | HF947H8001 | | 1 | 1 | 1 | |
| F40 | HF954H8001 | | 1 | 1 | 1 | |
| F43 | HF953H8001 | | 1 | 1 | 1 | |
| F44 | H005001060 | | 1 | 1 | 1 | |
| F45 | H104060250 | | 1 | 1 | 1 | M6×25 |
| F46 | HF939H8001 | | li | 1 | 1 | 11.0 |
| 47 | | Reverse stitching arm(D) | 1 | | | |

F.STITCH REGULATOR MECHANISM

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|--|--------|-----|------|---|
| F48 | HF941H8001 | Spring pin | 1 | 1 | 1 | |
| F49 | H003001060 | Nut | 1 | 1 | 1 | for long- |
| F50 | HF943H8001 | Rod | 1 | 1 | 1 | |
| F51 | HF942H8001 | Pull spring | 1 | 1 | 1 | |
| F52 | H424100100 | Thread pin | 1 | 1 | 1 | M10×10 |
| F53 | | Presser spring | 1 | 1 | 1 | 0 |
| F54 | HF963H8001 | | 1 | 1 | 1 | |
| F55 | HF966H8001 | | 1 | 1 | 1 | |
| F56 | HF958H8001 | | 1 | 1 | 1 | |
| F57 | HF967H8001 | | 1 | 1 | 1 | |
| F58 | HF961H8001 | | 2 | 2 | 2 | 100 |
| F59 | | Elastic washer | 4 | 4 | 4 | - 6 |
| F60 | H415050160 | | 4 | 4 | 4 | M5×16 |
| F61 | HK334F8001 | Pin | 1 | 1 | 1 | |
| | | (20) (4 (28) (27) | - 4 | - | 1 | |
| | | | ned | | | 1 64 |
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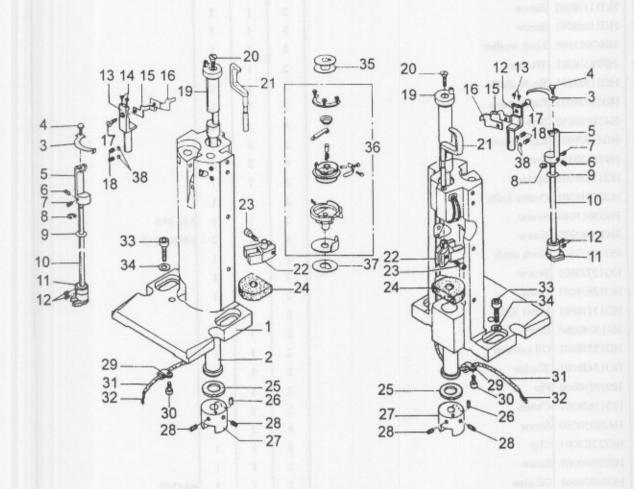


G.FEEDING AND FEED LIFTING MECHANISM

| Fig. No. | Part No. | Descr | iption | 2 | 1L | 1R | Remarks |
|-------------|------------|-------------------------|--------|---|----|----|-----------------------------|
| G01 | HF928I8001 | Feed shaft | | 1 | 1 | 1 | Oligabilish Essassive |
| G02 | HF959G8001 | Rubber cap | | 1 | 1 | 1 | 3168 001000839H |
| G03 | HF965G8001 | Adjusting shaft collar | | 1 | 1 | 1 | 3198 0010206034 |
| 304 | H415040120 | Bolt | | 1 | 1 | 1 | M4×12 |
| 305 | HF927E8001 | Bushing(L) | | 1 | 1 | 1 | ers bedreet 1000117891 |
| 306 | HF931I8001 | Thurst ring | | 1 | 1 | 1 | HEVY/JEEDI Coupiling co |
| 307 | H007009150 | E-type retaining ring | | 1 | 1 | 1 | Salts 0 - 820011 |
| 808 | HF941I8001 | Tube | | 1 | 1 | 1 | Test 110 1008188648 |
| 109 | HF942I8001 | Oil wick | | 1 | 1 | 1 | [.0galded] 1008178791. |
| 10 | HF937I8001 | Bushing | | 4 | 4 | 4 | 1168 1008100998 |
| 11 | HF945I8001 | Washer | | 3 | 3 | 3 | BREEZELIO PLUMENT SON |
| 12 | HF935I8001 | Feed arm(L) | | 1 | 1 | 1 | 1890818001 Plenger |
| 313 | HF936I8001 | Bolt(L) | | 2 | 2 | 2 | M110E0072 OIL feeding |
| 314 | HF956G8001 | Oil joint | | 1 | 1 | 1 | ber test 1017111898 |
| 315 | HF946I8001 | Spring | | 2 | 2 | 2 | Henry spart spart |
| 16 | H007013050 | E-type retaining ring 5 | | 1 | 1 | 1 | Sand Local Control |
| 17 | HF944I8001 | Pin | | 1 | 1 | 1 | Managagan Bett |
| 18 | HF939I8001 | Tube support | | 1 | 1 | 1 | 2 kg/ swal [5(7)019] |
| 19 | HF948I8001 | Bolt | | 2 | 2 | 2 | 600 mm |
| 320 | H415040120 | Screw | | 2 | 2 | 2 | Bior styl-1 Giorigians |
| 321 | HG107I8001 | Seat | | 1 | 1 | 1 | Spellstool Structures |
| 322 | HF949I8001 | Feed bracket | | 1 | 1 | 1 | dull'es find 10081800 Tinte |
| 323 | HF953I8001 | Pin | | 1 | 1 | 1 | n15 1008005099 |
| 324 | HF929I8001 | Oil seal | | 3 | 3 | 3 | Lower read Lower read |
| 325 | HF927E8001 | Feed shaft bushing(L) | | 1 | 1 | 1 | tels paccopeasing |
| 326 | HF927I8001 | Washer | | 4 | 4 | 4 | GO No Femilia 100x10003E |
| 27 | H415060120 | Bolt(R) | | 2 | 2 | 2 | M6×12 |
| 28 | HF923I8001 | Feed shaft arm(R) | | 2 | 2 | 2 | Figure 1100 |
| 329 | H007013050 | E-type retaining ring 5 | | 4 | 4 | 4 | shift incurates |
| 330 | HF926I8001 | Pin | | 2 | 2 | 2 | warns Appril - 1008181698 |
| 331 | HF924E8001 | Feed shaft bushing(R) | | 2 | 2 | 2 | sity repulated 600000000 |
| 332 | HF957I8001 | Feed connecting arm(L) | | 1 | 1 | 1 | stad badreet 100811110 |
| 333 | HA719B0707 | | | 1 | 1 | 1 | Crostag alab locateogo |
| 334 | H415050160 | Bolt | | 1 | 1 | 1 | M5×16 |
| 35 | HF958I8001 | Pin(L) | | 1 | 1 | 1 | PETETROOT Presset spelt |
| 336 | HF961I8001 | | | 1 | 1 | 1 | 2001 1008101890 Hody |
| 37 | H401030080 | Bolt | | 2 | 2 | 2 | BRIDGOTZO ALIGNETINE NO- |
| 338 | HF954I8001 | Washer | | 2 | 2 | 2 | #31080120 Holts |
| 339 | HF952I8001 | Feed link | | 2 | 2 | 2 | \$100 001000EE |
| 340 | HF959I8001 | Shaft | | 1 | 1 | 1 | 3145 090200038 |
| 341 | HF965G8001 | Adjusting shaft collar | | 2 | 2 | 2 | 1165 0305103591 |
| 342 | H415040120 | | | 2 | 2 | 2 | M4×12 |
| 343 | HF927E8001 | | | 1 | 1 | 1 | |

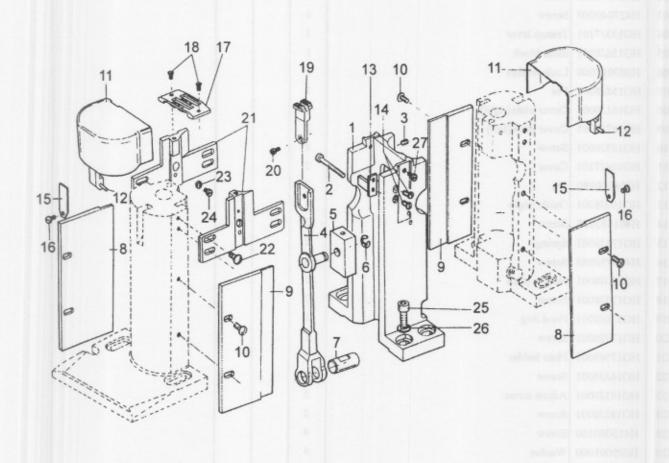
G.FEEDING AND FEED LIFTING MECHANISM

| ig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|------------|------------|-------------------------------|---|----|----|--------------------------------|
| G44 | HF924E8001 | Bushing (R) | 1 | 1 | 1 | Byte best 2000 and the |
| G45 | H428060100 | Bolt | 2 | 2 | 2 | M6×10 |
| G46 | H429060100 | Bolt | 2 | 2 | 2 | M6×10 |
| G47 | HF975J8001 | Coupling claw(L) | 1 | 1 | 1 | 168 0310402041 |
| G48 | HF978J8001 | Toothed wreath | 1 | 1 | 1 | (A)guidens 100 cortico (L.) |
| G49 | HF977J8001 | Coupling craw(R) | 1 | 1 | 1 | BESTUSSOI Threst ring |
| G50 | 118026 | 0 ring | 1 | 1 | 1 | 19367909150 B-1ypu related |
| G51 | HF988I8001 | 0il seal | 1 | 1 | 1 | mb/T 1000TTR9EE |
| G52 | HF98718001 | Bushing (L) | 1 | 1 | 1 | HESTERROL OR WICK |
| G53 | HF99218001 | Bolt | 1 | 1 | 1 | RESSTREET REstrict |
| G54 | H34412C110 | Plunger spring | 1 | 1 | 1 | SPRESSOON Worker |
| G55 | HF966I8001 | Plunger | 1 | 1 | 1 | Esperation Food street, 3 |
| G56 | HA110E0672 | Oil feeding pipe | 1 | 1 | 1 | (Links 100matel |
| G57 | HF97117101 | Feed rod | 1 | 1 | 1 | Initial Ico 100000888888 |
| G58 | HF90518001 | Lower shaft | 1 | 1 | 1 | Representation States |
| G59 | HG113I8001 | Feed cam | 1 | 1 | 1 | EDDOOD FORD E-Cyle mening |
| G60 | H428060050 | Bolt | 2 | 2 | 2 | M6×5 |
| G61 | HF91917101 | Lowe feed connecting rod assy | 1 | 1 | 1 | inequa sdaT 1008HHEE |
| G62 | HF926I8001 | Pin | 1 | 1 | 1 | Host tooksades |
| G63 | H007013050 | E-tpye retaining ring 5 | 2 | 2 | 2 | Marion Constant |
| G64 | HF961H8001 | Slide block | 2 | 2 | 2 | HE310713001 Sent |
| G65 | HF92518001 | Back sylinder connection | 1 | 1 | 1 | Pestand beed Total beatlest |
| G66 | HF960H8001 | Pin | 1 | 1 | 1 | 明型 1002(R20型) |
| G67 | HF917I8001 | Lower feed cam | 1 | 1 | 1 | less 110 10081856/04 |
| G68 | H428060080 | Bolt | 2 | 2 | 2 | M6×8 |
| G69 | HF990I8001 | Bushing (R) | 1 | 1 | 1 | Hard Manhet |
| G70 | HF956G8001 | Oil joint | 1 | 1 | 1 | (A)1891 02 1090 (M) |
| G71 | HF991I8001 | Sealing ring | 1 | 1 | 1 | HERESTERNOT Front sinus series |
| G72 | HF915I8001 | Disk | 1 | 1 | 1 | binistra spyr-II Otot 16700H1 |
| G73 | HF916I8001 | Stunk screw | 2 | 2 | 2 | HESPAIRSON Pin |
| G74 | H007009220 | Retainer ring | 1 | 1 | 1 | short Back bear 10000150000 |
| G75 | HG111I8001 | Toothed belt | 1 | 1 | 1 | HERRITICON Freed consecuting |
| G76 | HG10918001 | Belt pulley(D) | 1 | 1 | 1 | Salther eng. |
| G77 | HF911I8001 | Piston | 2 | 2 | 2 | 508 90103011MH |
| G78 | HF912I8001 | Presser spring | 2 | 2 | 2 | RESTROOT PAGE |
| G79 | HF910I8001 | Body | 1 | 1 | 1 | doi:w160 16681168931 |
| G80 | H431060120 | Adjusting screw | 2 | 2 | 2 | M6×12 |
| G81 | H431080120 | Bolt | 1 | 1 | 1 | M8×12 |
| G82 | H430080120 | Bolt | 1 | 1 | 1 | M8×12 |
| G83 | H003002060 | Nut | 2 | 2 | 2 | M6 |
| G84 | H428040060 | Bolt | 1 | 1 | 1 | Carlo pointerful. 100000000000 |



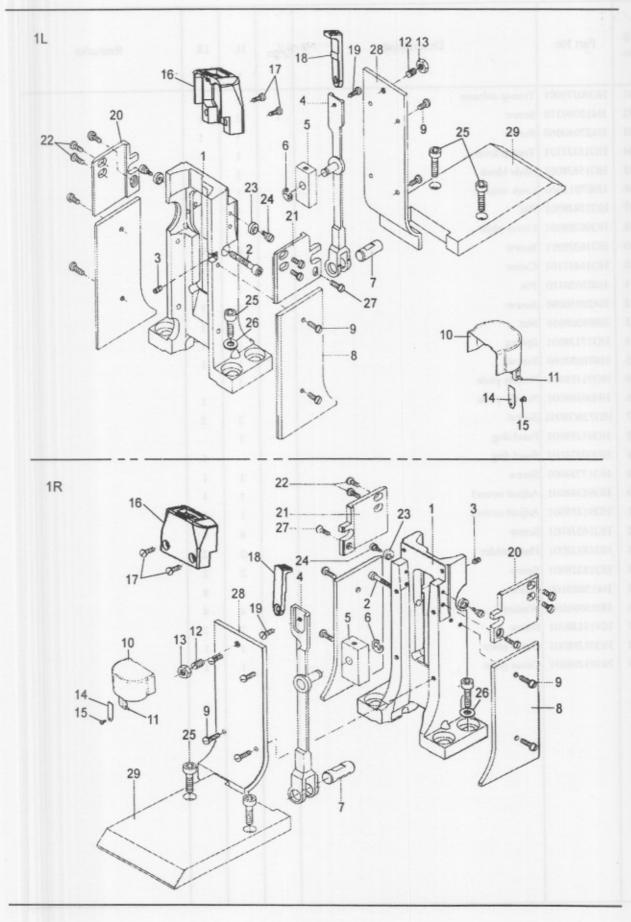
H.HOOK SADDLE MECHANISM (1)

| | Part No. | Description | 2 | 1L | 1R | Remarks |
|-----|------------|-------------------|---|----|----|-------------|
| H01 | HG106J8001 | Hook column | 2 | 1 | 1 | |
| H02 | HG107J8001 | Bushing | 2 | 1 | 1 | |
| H03 | HG108J8001 | Knife | 2 | 1 | 1 | |
| H04 | HG109J8001 | Hexagonal Screw | 2 | 1 | 1 | |
| H05 | HG110J8001 | Knife bearer cpl. | 2 | 1 | 1 | |
| H06 | HG111J8001 | Screw | 2 | 1 | 1 | |
| H07 | HG112J8001 | Screw | 2 | 1 | 1 | |
| H08 | H007013060 | Lock washer | 2 | 1 | 1 | |
| H09 | HF945I8001 | Washer | 2 | 1 | 1 | 13 14 15 16 |
| H10 | HG115J8001 | Knife shaft | 2 | 1 | 1 | er I I I I |
| H11 | HG117J8001 | Knife crank | 2 | 1 | 1 | 204,5 |
| H12 | H431050050 | Screw | 4 | 2 | 2 | (1) g-1 |
| H13 | HG119J8001 | Knife bearer | 2 | 1 | 1 | |
| H14 | H401020050 | Screw | 4 | 2 | 2 | M M & |
| H15 | HG121J8001 | Spring | 2 | 1 | 1 | 88 94 |
| H16 | HG122J8001 | Couter knife | 2 | 1 | 1 | II GA |
| H17 | H403025040 | Screw | 2 | 1 | 1 | M2.5×4 |
| H18 | H431040050 | Screw | 4 | 2 | 2 | M4(0.5)×5 |
| H19 | HG125J7101 | Hook shaft | 2 | 1 | 1 | Lu Lu |
| H20 | HG127J8001 | Screw | 2 | 1 | 1 | 爲 胆 |
| H21 | HG128J8001 | Lever | 2 | 1 | 1 | BY BY |
| H22 | HG131J8001 | Lifter fork | 2 | 1 | 1 | |
| H23 | H415040080 | Screw | 2 | 1 | 1 | |
| H24 | HG133J8001 | Oil cushion | 2 | 1 | 1 | 00 |
| H25 | HG134J8001 | Washer | 2 | 1 | 1 | |
| H26 | H609030060 | Pin | 2 | 1 | 1 | 4 1 6 |
| H27 | HG136J8001 | Clutch | 2 | 1 | 1 | os se |
| H28 | H428050080 | Screw | 4 | 2 | 2 | → 22 |
| H29 | H6732K8001 | Clip | 2 | 1 | 1 | |
| H30 | H402040060 | Screw | 2 | 1 | 1 | |
| H31 | HG140J8001 | Oil pipe | 2 | 1 | 1 | φ4×340 |
| H32 | HG141J8001 | Oil wick | 2 | 1 | 1 | 500 |
| H33 | H415060160 | Screw | 4 | 2 | 2 | |
| H34 | H005001060 | Washer | 4 | 2 | 2 | |
| H35 | HF971B8001 | Bobbin | 2 | 1 | 1 | |
| H36 | HG145J7101 | Hook Asm. | 2 | 1 | 1 | |
| H37 | HG146J8001 | Washer | 2 | 1 | 1 | |
| | HG123J8001 | Pressure pin | 4 | 2 | 2 | |



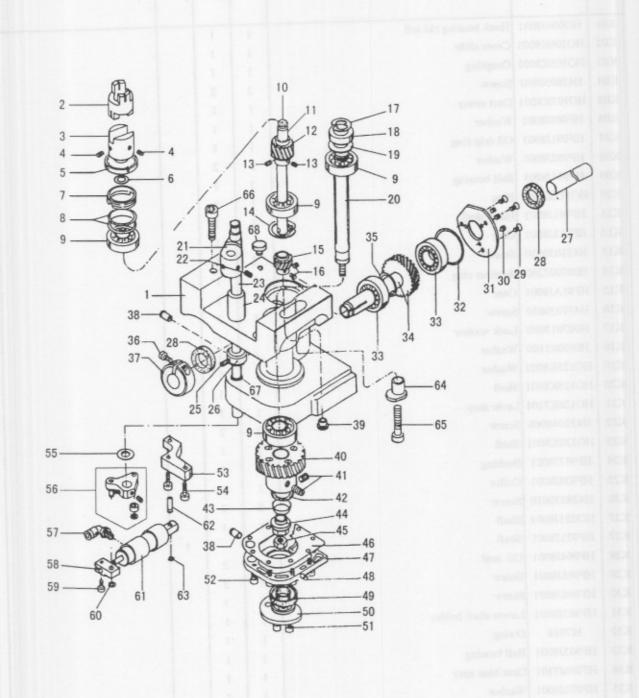
I.HOOK SADDLE MECHANISM (2)

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|--------------------|---|-----|------|-------------|
| I01 | HG150J8001 | Transp.column | 1 | | | |
| 102 | | Screw | 1 | | | |
| 103 | H427040060 | Screw | 1 | | | |
| 104 | HG153J7101 | Transp.lever | 1 | | | |
| 105 | HG156J8001 | Slide block | 1 | | Z. | 18 |
| 106 | H007013060 | Lock washer | 1 | | | |
| 107 | HG158J8001 | Pin | 1 | | | |
| 108 | HG161J8001 | Cover plate(right) | 2 | | | |
| 109 | HG162J8001 | Cover plate(left) | 2 | | | |
| I10 | HG163J8001 | Screw | 8 | - | | |
| I11 | HG164J7101 | Cover | 2 | ne | | 5 1914 711 |
| I12 | H604020180 | Pin | 2 | | 63 | |
| I13 | HG169J8001 | Guide angle | 1 | Bee | Im | I for a ISI |
| 114 | H401035080 | Screw | 2 | 6 | | |
| I15 | HG171J8001 | Spring | 2 | 200 | III. | |
| 116 | H401030060 | Screw | 2 | | 187 | |
| 117 | HG120J8001 | Needle plate | 1 | | - | |
| I18 | HG175J8001 | | 2 | | | |
| I19 | HG176J8001 | | 1 | | - 20 | |
| 120 | HG177J8001 | | 1 | | 71 | |
| I21 | HG179J8001 | | 2 | | Of 1 | |
| 122 | HG163J8001 | | 8 | | 29 | |
| 123 | HG181J8001 | | 2 | 1 | | |
| 124 | HG182J8001 | | 2 | | | |
| 125 | | Screw | 4 | | | |
| 126 | H005001060 | | 4 | | | |
| 127 | HN190J8001 | Screw | 2 | | | |



J.HOOK SADDLE MECHANISM(3)

| Pig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|---------------|------|-----|-----|--|
| J01 | HG90J78001 | Transp.column | 1 | 1 | 1 | |
| J02 | H415040370 | | 04 | 1 | 1 | 20 |
| J03 | H427040060 | Screw | | 1 | 1 | 1016 |
| 104 | HG153J7101 | Transp.lever | 18 | 1 | 1 | |
| 105 | HG156J8001 | Slide block | | 1 | 1 | |
| 106 | H007013060 | Lock washer | 6 10 | 1 | 1 | |
| J07 | HG158J8001 | Pin | | 1 | 1 | |
| J08 | HG90J88001 | Cover plate | | 2 | 2 | |
| J09 | HG163J8001 | Screw | | 8 | 8 | |
| J10 | HG164J7101 | Cover | 9 88 | 1 | 1 | |
| J11 | H605020180 | Pin | | 1 | 1 | |
| J12 | H428050080 | Screw | | 1 | 1 | |
| J13 | H003008050 | Nut | | 1 | 1 | |
| J14 | HG171J8001 | Spring | | 1 | 1 | TO VIEW |
| J15 | H401030060 | Screw | | 1 | 1 | |
| J16 | HG91J18001 | Needle plate | | 1 | 1 | |
| J16 | HH00J68001 | Needle plate | | | 1 | |
| J17 | HD726G8001 | Screw | | 2 | 2 | |
| J18 | HG91J38001 | Food dog | | 1 | | |
| J18 | HH00J78001 | Food dog | - | - | 1 | |
| J19 | HG177J8001 | Screw | 100 | 1 | 1 | |
| J20 | HG91J48001 | Adjust cover1 | | 1 | 1 | |
| J21 | HG91J58001 | Adjust cover2 | 15 | 1 | 1 | |
| J22 | HG163J8001 | Screw | 100 | 4 | 4 | |
| J23 | HG181J8001 | Plate holder | | 2 | 2 | 29 |
| J24 | HG182J8001 | Screw | | 2 | 2 | The last the |
| J25 | H415060160 | Screw | 1 11 | 8 | 8 | |
| J26 | H005001060 | Washer | S W | 4 | 4 | |
| J27 | HN191J8001 | Screw | | 2 | 2 | |
| J28 | HG91J88001 | Cover plate | | 1 | 1 | |
| J29 | HG91J98001 | Cover plate | | 1 | 1 | |
| | 1 | | | | | |
| | 1 | | | | 1 0 | |
| | | | | | | |
| | | W 10 90 | | | 10 | |
| | | K I w | | 100 | | |
| | | 7.0 | | 1 | 1 | |
| | | | | 100 | | |
| | | | 16 | | | |
| | | | | | | 3 |
| | | | | 1 | | |

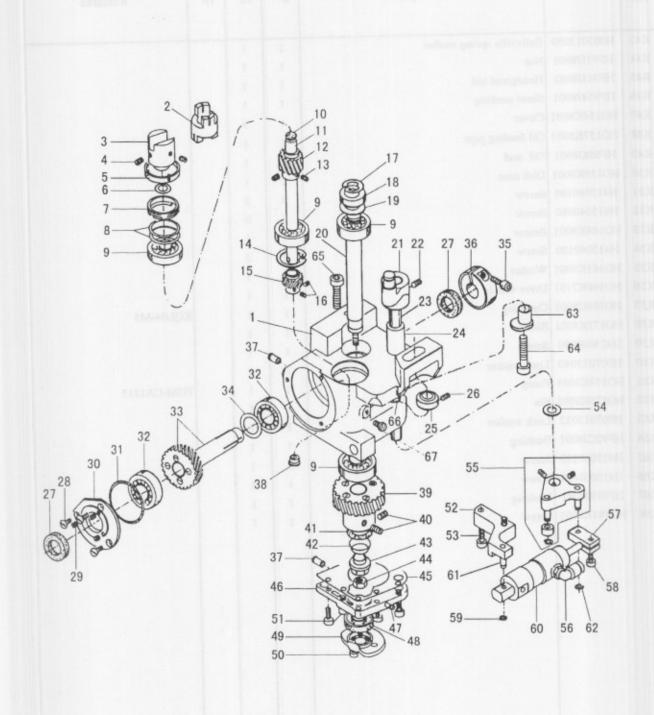


K.GEAR SADDLE MECHANISM (LEFT)

| Fig. | Part No. | Description | 2- | 1L | 1R | Remarks |
|------|------------|-----------------------|----------|----|------|---------|
| K01 | HG006J8001 | Hook bearing ckl.left | 1 | 1 | - | |
| K02 | HG106K8001 | Cross slide | 1 | 1 | | |
| K03 | HG105K8001 | Coupling | 1 | 1 | | |
| K04 | H428050060 | Screw | 2 | 2 | | |
| K05 | HG107K8001 | Dust cover | 1 | 1 | | |
| K06 | HF989J8001 | Washer | 1 | 1 | | |
| K07 | HF991J8001 | Oil drip ring | 1 | 1 | | |
| K08 | HF992J8001 | Washer | 2 | 2 | | |
| K09 | HF984J8001 | Ball bearing | 3 | 3 | 3 | |
| K10 | HG112K8001 | Plug | 1 | 1 | | |
| K11 | HF981J8001 | Hook shaft | 1 | 1 | | |
| K12 | HF983J8001 | Gear | 1 | 1 | 100 | (652) |
| K13 | H431050050 | Screw | 2 | 2 | -33 | |
| K14 | H007007260 | Retainer ring | 1 | 1 | | |
| K15 | HF91AJ8001 | Gear | 1 | 1 | | |
| K16 | H431050050 | Screw | 1 | 1 | 1 | ar |
| K17 | H007013080 | Lock washer | 1 | 1 | 1 | |
| K18 | H005005100 | Washer | 1 | 1 | | |
| K19 | HG123K8001 | Washer | 1 | 1 | | |
| K20 | HG125K8001 | Shaft | 1 | 1 | MA | |
| K21 | HG126K7101 | Lever assy. | 1 | 1 | | |
| K22 | H431040060 | Screw | 2 | 2 | | |
| K23 | HG130K8001 | Shaft | 1 | 1 | - 0 | II |
| K24 | HF917J8001 | Bushing | 1 | 1 | 40 | |
| K25 | HF920J8001 | Collor | 1 | 1 | | 102 |
| K26 | H428050050 | Screw | 2 | 2 | - 9/ | |
| K27 | HG021J8001 | Shaft | 1 | 1 | 10 | |
| K27 | HF971J8001 | Shaft | F 10 5 3 | | 1 | |
| K28 | HF964J8001 | Oil seal | 2 | 2 | 1 | NGO_H |
| K29 | HF965J8001 | Screw | 3 | 3 | | |
| K30 | HF966J8001 | Screw | 3 | 3 | E8 . | |
| K31 | HF962J8001 | Lower shaft holder | 1 | 1 | | |
| K32 | 387018 | O ring | 1 | 1 | | |
| K33 | HF963J8001 | Ball bearing | 1 | 1 | | |
| K34 | | Gear base assy | 1 | 1 | | |
| K35 | | Washer | 1 | 1 | | |
| K36 | HF973J8001 | Collor | 1 | 1 | | |
| K37 | H415060200 | Screw | 1 | 1 | | |
| K38 | HF947J8001 | Oil joint | 2 | 2 | | |
| K39 | HG144K8001 | | 1 | 1 | | |
| K40 | | Gear base assy | 1 | 1 | | |
| K41 | | Screw | 1 | 1 | | |
| K42 | | O ring | 1 | | | |

K.GEAR SADDLE MECHANISM (LEFT)

| Fig. No. | Part No. | Description | 2- | 1L | 1R | Remarks |
|-------------|------------|--------------------------|----|----|-----|------------|
| ζ43 | H005013050 | Belleville spring washer | 1 | 1 | | |
| K44 | HF91IJ8001 | Nut | 1 | 1 | | |
| (45 | HF91JJ8001 | Hexagonal nut | 1 | 1 | | |
| 46 | HF954J8001 | Sheet packing | 1 | 1 | JA | A |
| 47 | HG154K8001 | Cover | 1 | 1 | 118 | |
| 48 | HG157K8001 | Oil feeding pipe | 1 | 1 | 7 | |
| (49 | HF958J8001 | Oil seal | 1 | 1 | | |
| 350 | HG159K8001 | Disk cam | 1 | 1 | | |
| 51 | H415040100 | Screw | 3 | 3 | | A |
| 52 | H415040080 | Screw | 6 | 6 | | |
| 53 | HG164K8001 | Bearer | 1 | 1 | | |
| 54 | H415040120 | Screw | 2 | 2 | | |
| 355 | HG161K8001 | Washer | 1 | 1 | | |
| 56 | HG166K7101 | Drive winch | 1 | 1 | | |
| 57 | HG109C8001 | Coupling | 1 | 1 | | KQL04-M5 |
| 58 | HG172K8001 | Block | 1 | 1 | | |
| 59 | H415040080 | Screw | 1 | 1 | | |
| 60 | H007013040 | Lock washer | 1 | 1 | | |
| (61 | HG174K8001 | Pump | 1 | 1 | 10 | TGM-CA1215 |
| (62 | HG175K8001 | Pin | 1 | 1 | | 0 |
| (63 | | Lock washer | 1 | 1 | | 100 |
| C64 | HF92CJ8001 | Bushing | 1 | 1 | 1 | 原约 |
| K65 | H415060220 | | 1 | 1 | | 07/2 |
| K66 | | | 1 | 1 | | |
| K67 | | | 1 | 1 | | P //w |
| K68 | HG181K8001 | Sciew | | 1 | | |

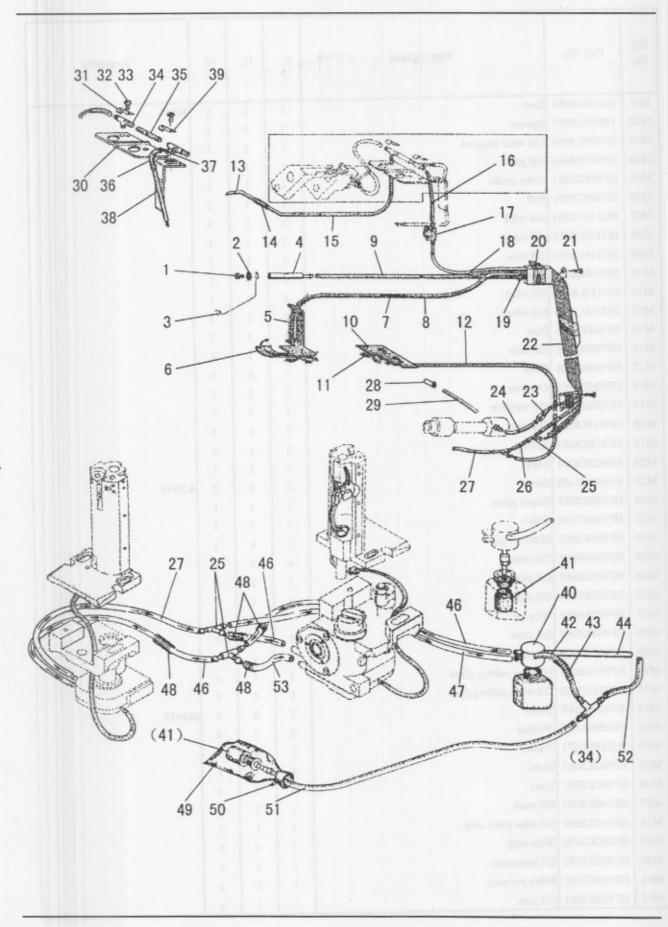


L.GEAR SADDLE MECHANISM (RIGHT)

| Fig. No. | Part No. | | Description | Service . | 2 | 11. | IR | Remarks |
|-------------|--|------------------|-------------|-----------|---|-----|----|-------------------------------|
| L01 | HF945J8001 | Hook bearing c | kl.left | | 1 | | 1 | es lamogazate, posecurente |
| L02 | HG106K8001 | Cross slide | | | 1 | | 1 | risten media 1008040998 |
| L03 | HG105K8001 | Coupling | | | 1 | | 1 | HONOR DONNE |
| L04 | H428050060 | Screw | | | 2 | | 2 | a pulsa de lo montre lost |
| L05 | HG107K8001 | Dust cover | | | 1 | | 1 | less 60 1998 6078 |
| L06 | HF989J8001 | Washer | | | 1 | | 1 | HG159K3001 Distenti |
| L07 | HF991J8001 | Oil drip ring | | | 1 | | 1 | HM13040100 Secon |
| L08 | HF992J8001 | Washer | | | 2 | | 2 | HAISCHOOLD Screen |
| L09 | HF984J8001 | Ball bearing | | | 1 | | 3 | MOTO FICTION |
| L10 | HG112K8001 | Plug | | | 1 | | 1 | H41.1640122 Serew |
| L11 | HF981J8001 | Hook shaft | | | 1 | | 1 | tidaW 1008X1310B |
| L12 | HF983J8001 | Gear | | | 1 | | 1 | doelw wiski 1010200100 |
| L13 | H431050050 | Screw | | | 2 | | 2 | BallowSi Coupling |
| L14 | H007007260 | Retainer ring | | | 1 | | 1 | HQ17203001 Block |
| L15 | HF91AJ8001 | Gear | | | 1 | | 1 | THI SOJOSKO Serew |
| L16 | H431050050 | Screw | | | 1 | | 1 | 1007013040 Look washer |
| L17 | H007013080 | Lock washer | | | 1 | | 1 | MOTESTON Princip |
| L18 | H005005100 | Washer | | | 1 | | 1 | HOLYSKIEGO Pie |
| L19 | HG123K8001 | Washer | | | 1 | | 1 | radeout double Local sensions |
| L20 | HG125K8001 | Shaft | | | 1 | | 1 | HEPOCHOOT Building |
| L21 | HG126K7101 | Lever assy. | | | 1 | | 1 | H1300023 Stant |
| L22 | H431040060 | | | | 2 | | 2 | HALforough Stewar |
| L23 | HG130K8001 | Shaft | | | 1 | | 1 | generated income result |
| L24 | HF917J8001 | Bushing | | | 1 | | 1 | Mattersonan Sensy |
| L25 | HF920J8001 | Collor | | | 1 | | 1 | |
| L26 | H428050050 | Screw | | | 2 | | 2 | |
| L27 | HF964J8001 | Oil seal | | | 2 | | 2 | |
| L28 | HF965J8001 | Screw | | | 3 | | 3 | |
| L29 | HF966J8001 | Screw | | | 3 | | 3 | |
| L30 | HF962J8001 | Lower shaft ho | lder | | 1 | | 1 | |
| L31 | 387018 | O ring | | | 1 | | 1 | |
| L32 | HF963J8001 | Ball bearing | | | 1 | | 1 | |
| L33 | HF968J7101 | Gear base assy | | | 1 | | 1 | |
| L34 | HF970J8001 | Washer | | | 1 | | 1 | |
| L35 | HF973J8001 | | | | 1 | | 1 | |
| L36 | H415060200 | Screw | | | 1 | | 1 | |
| L37 | HF947J8001 | | | | 2 | | 2 | |
| L38 | HG144K8001 | | | | 1 | | 1 | |
| L39 | A STATE OF THE STA | Gear base assy | | | 1 | | 1 | |
| L40 | H431050060 | | | | 1 | | 1 | |
| L41 | 95018 | O ring | | | 1 | | 1 | |
| L42 | H005013050 | Belleville sprin | g washer | | 1 | | 1 | |
| 143 | | Nut | | | | | | |

L.GEAR SADDLE MECHANISM (RIGHT)

| g. o. | Part No. | | Description | 2 | 1L | 1R | Remarks |
|----------|------------|------------------|-------------|---|----|-----|------------------------------|
| 14 | HF91JJ8001 | Hexagonal nut | | 1 | | 1 | III M3J8 01 [Haok bearing |
| 15 | HF954J8001 | Sheet packing | | 1 | | 1 | stalis santo (1008)Biblio |
| 16 | HG180K8001 | | | 1 | | 1 | godges > 1006281010 B |
| 7 | | Oil feeding pipe | | 1 | | 1 | word coosensal |
| 18 | HF958J8001 | Oil seal | | 1 | | 1 | sweeters 1006/10101 |
| 19 | HG159K8001 | Disk cam | | 1 | | 1 | (PSESSON Wedner |
| 0 | H415040100 | Screw | | 3 | | 3 | Harriston: Oil deprine |
| 1 | H415040080 | Screw | | 6 | | 6 | tedesW Industrial |
| 2 | HG164K8001 | Bearer | | 1 | | 1 | HERESTON DAIL bearing |
| 3 | H415040120 | Screw | | 2 | | 2 | \$614 1000XXX1001 |
| 4 | HG161K8001 | Washer | | 1 | | 1 | State Month Honek start |
| 55 | HG166K7101 | Drive winch | | 1 | | 1 | HERSTERN COM |
| 6 | HG109C8001 | Coupling | | 1 | | 1 | KQL04-M5 |
| 7 | HG172K8001 | Block | | 1 | | 1 | \$600000 (Returner ring) |
| 8 | H415040080 | Screw | | 1 | | 1 | TEST TOSTATIVES |
| 9 | H007013040 | Lock washer | | 1 | | 1 | Western Second |
| 0 | HG174K8001 | Pump | | 1 | | 1 | TGM-CA1215 |
| 1 | HG175K8001 | Pin | | 1 | | 1 | 10055005100 Wades |
| 2 | H007013035 | Lock washer | | 1 | | 1 | DEEDSON Wester |
| 3 | HF92CJ8001 | Bushing | | 1 | | 1 | 11:00 TOO STATE 101 |
| 4 | H415060220 | Screw | | 1 | | 1 | Area seval to CERTION |
| 5 | H415060400 | Screw | | 1 | | 1 | WHITE SOURCE |
| 6 | HF919J8001 | Bushing | | 1 | | 1 | Media (most)(et lib) |
| 7 | H401050040 | Screw | | 1 | | 1 | William Dating |
| | | | | | | | HI VOOLEGO COVIES |
| | | | | | | | www.S. ot.ostostel |
| | | | | | | | Inst RO 1008119611 |
| | | | | | | | wester tocatherd |
| | | | | | | | Water 1008D264 |
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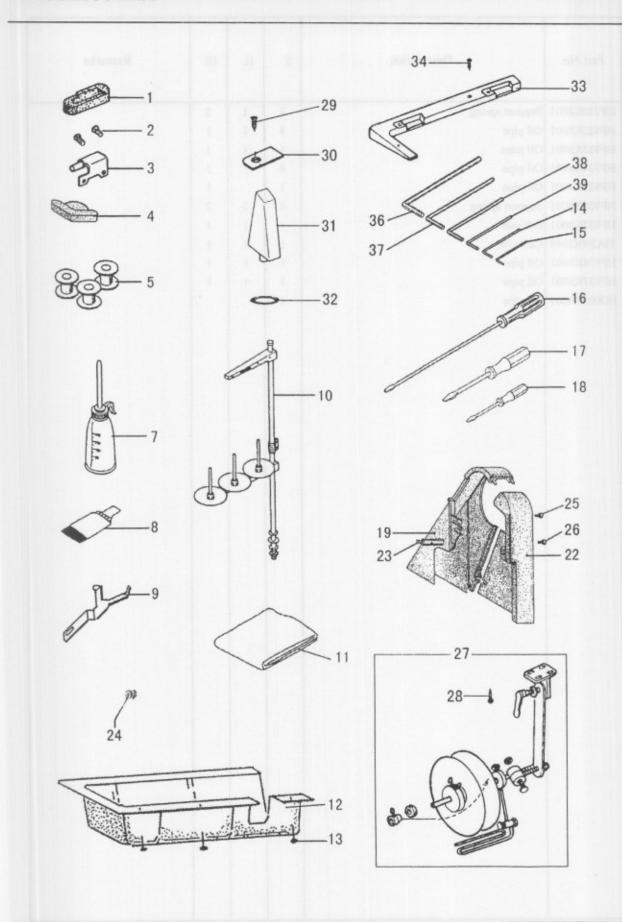


M.OIL LUBRICATION MECHANISM

| Fig. No. | Part No. | Description | 2- | 1L | 1R | 34 35 | Remarks |
|-------------|--------------|----------------------------------|----|----|----|--------|---------|
| 101 | H401050080 | Bolt | 1 | 1 | 1 | M5×8 | 1 |
| 102 | | Spacer | 1 | 1 | 1 | 170070 | |
| 103 | | Oil wick support | 1 | 1 | 1 | 4865 | |
| 104 | | Oil joint | 1 | 1 | 1 | 1-90 | |
| 105 | | Tube guide | 1 | 1 | 1 | | |
| 106 | | Felt | 1 | 1 | 1 | 1 10 | |
| 107 | HG111L8001 | | 1 | 1 | 1 | 1 8 | |
| 108 | HG112L8001 | | 1 | 1 | 1 | | |
| 109 | HG118L8001 | | 1 | 1 | 1 | | |
| 110 | | Felt | 1 | 1 | 1 | | |
| 411 | HG116L8001 | | 1 | 1 | 1 | | |
| 112 | HG115L8001 | | 1 | 1 | 1 | 3- | |
| 113 | HF948K8001 | | 1 | 1 | 1 | | |
| 114 | | Oil tube | 1 | 1 | 1 | | |
| 115 | | Hose | 1 | 1 | 1 | -0 | |
| 116 | | Oil pipe | 1 | 1 | 1 | | |
| 117 | | Oil window | 1 | 1 | 1 | | |
| 118 | HG119L8001 | | 1 | 1 | 1 | | |
| 119 | | Spring | 1 | 1 | 1 | | |
| 120 | | Таре | 1 | 1 | 1 | | |
| 121 | | Screw | 2 | 2 | 2 | 4.2×16 | |
| 122 | | Guard plate | 1 | 1 | 1 | | |
| 123 | HF956K7101 | | 1 | 1 | 1 | | |
| 124 | | Main oil pipe | 1 | 1 | 1 | | |
| 125 | HF920K8001 | | 4 | 2 | 2 | 12 | |
| 126 | | Oil pipe | 1 | 1 | 1 | 1 | |
| 127 | HF922K8001 | | 3 | 1 | 1 | | |
| 127 | HF922K8001 | | | 2 | | | |
| 128 | | Oil joint | 1 | 1 | 1 | 11 | |
| 129 | | Oil pipe | 1 | 1 | 1 | | |
| 130 | | Oil pipe setting plate | 1 | 1 | 1 | N REI | |
| 131 | | Oil wick setting plate | 1 | 1 | 1 | | |
| 132 | | Screw | 2 | 2 | 2 | M4×10 | |
| 133 | | Washer | 2 | 2 | 2 | LEIA) | |
| 134 | | T-joint | 3 | 3 | 3 | | |
| 135 | | Hose | 1 | 1 | 1 | | |
| 136 | HF947K8001 | | 1 | 1 | 1 | 1 | |
| 137 | | Oil wiek | 1 | 1 | 1 | 69 | |
| 138 | | Oil pipe plate assy | 1 | 1 | 1 | | |
| 139 | | Wire assy | 1 | 1 | 1 | | |
| 140 | | Oil hose assy Filter pot assy | 1 | 1 | 1 | | |
| 6/6/1 | HE/0631/7101 | Liston not ann. | 1 | 1 | 1 | | |

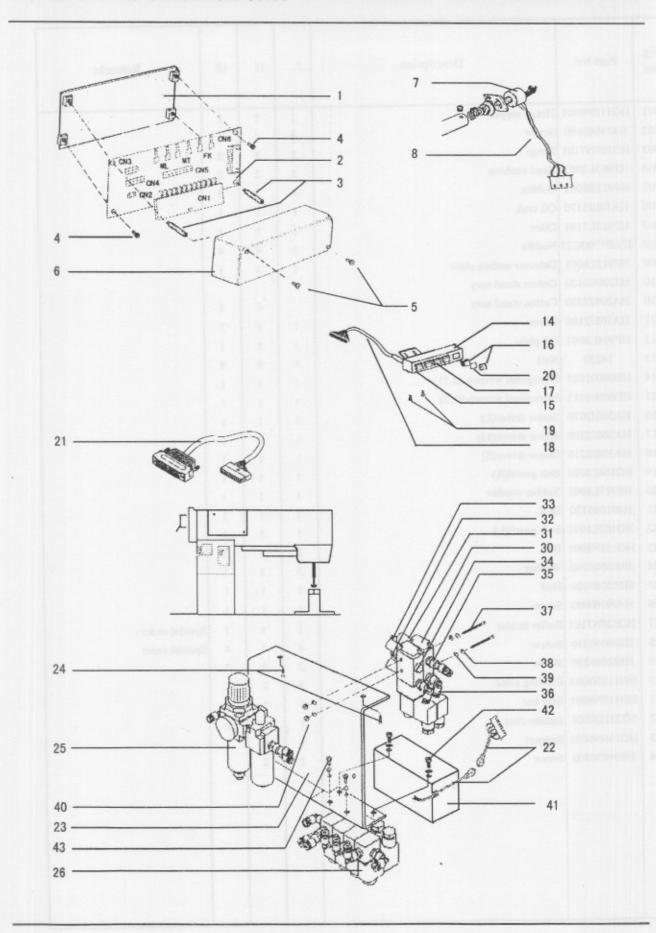
M.OIL LUBRICATION MECHANISM

| ig. lo. | Part No. | Description | | 2 | 1L | 1R | Remarks |
|------------|------------|--|-----|---------------------|----|-----|---------|
| [43 | HF930K8001 | Support spring | 154 | 1 | 1 | 1 | |
| [44 | HF923K8001 | | | 1 | 1 | 1 | |
| [45 | HF935K8001 | Oil joint | | 1 | 1 | 1 | |
| [46 | HF924K8001 | Oil pipe | | 4 | 0 | 1 | |
| [47 | HF925K8001 | Oil pipe | | 1 | | 1 | |
| 148 | HF926K8001 | Support spring | | 4 | 2 | 2 | |
| 149 | HF932K8001 | Felt part | | -1 | 1 | 1 | |
| 150 | HA300I2040 | Cable tie | | 1 | 1 | 1 | |
| 151 | HF934K8001 | Oil pipe | | 1 | 1 | 1 | |
| 152 | HF937K8001 | Oil pipe | | 1 | 1 | 1 | |
| 153 | HG005K8001 | Oil pipe | | 1 | 3 | | |
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N.ACCESSORIES

| g. o. | Part No. | Description | 2 | 1L | 1R | Remarks |
|----------|--|------------------------|---|----|----|---------------|
| 01 | HG112N8001 | Hinge support | 2 | 2 | 2 | |
| 102 | H411060100 | Screw | 4 | 4 | 4 | |
| V03 | HG107N7101 | Hinge | 2 | 2 | 2 | ANTI- |
| N04 | | Head cushion | 2 | 2 | 2 | 167 / |
| N05 | HF971B8001 | Bobbin | 4 | 3 | 3 | THE OWN |
| N06 | HA100J2170 | Oil tank | 1 | 1 | 1 | La Production |
| N07 | HF912L7101 | Oiler | 1 | 1 | 1 | 10/ |
| N08 | JZDP1700G23 | Neddle | 6 | 4 | 4 | |
| N09 | | Detector setting plate | 1 | 1 | 1 | |
| N10 | | Cotton stand assy | 1 | | - | |
| N10 | | Cotton stand assy | | 1 | 1 | |
| N11 | HA100J2180 | | 1 | 1 | 1 | |
| N12 | HF904L8001 | | 1 | 1 | 1 | |
| N13 | 16250 | Nail | 8 | 8 | 8 | |
| N14 | | Hexagonal wrench (2.5) | 1 | 1 | 1 | |
| N15 | | Hexagonal wrench (1.5) | 1 | 1 | 1 | |
| N16 | | Screw driver(L) | 1 | 1 | 1 | |
| N17 | | Screw driver(M) | 1 | 1 | 1 | |
| N18 | | Screw driver(S) | 1 | 1 | 1 | 200 |
| N19 | | Belt guard(R) | 1 | 1 | 1 | |
| N20 | H D T TO THE PARTY OF THE PARTY | Rubber washer | 1 | 1 | 1 | |
| N21 | | Bolt | 1 | 1 | 1 | 773- |
| N22 | | Belt guard(L) | 1 | 1 | 1 | I A |
| N23 | HG158N8001 | | 2 | 2 | 2 | |
| N24 | | Washer | 3 | 3 | 3 | |
| N25 | H102060100 | | 1 | 1 | 1 | |
| N26 | H409060080 | | 1 | 1 | 1 | |
| N27 | | Roller holder | 1 | 1 | 1 | Special order |
| N28 | H804050250 | | 4 | 4 | 4 | Special order |
| N29 | H802060250 | | 2 | 2 | 2 | Special order |
| N30 | | Holding plate | 2 | 2 | 2 | |
| N31 | HG119N8001 | | 1 | 1 | 1 | |
| N32 | H7331D8001 | | 1 | 1 | 1 | |
| N33 | HG110N8001 | | 1 | 1 | 1 | |
| N34 | H804050300 | | 2 | 2 | 2 | |
| | | | | | | |



O.PNEUMATIC CONTROL UNIT

| Fig. No. | Part No. | Description | 2 | 1L | 1R | Remarks |
|-------------|------------|--------------------------|---|----|----|---------|
| P01 | HF930M8001 | Connecting box base | 1 | 1 | 1 | |
| P02 | HF924M8001 | PCB board | 1 | 1 | 1 | |
| P03 | HF932M8001 | Connecting box screw | 3 | 3 | 3 | |
| P04 | H409040160 | Screw | 3 | 3 | 3 | |
| P05 | H415030120 | Screw | 3 | 3 | 3 | |
| P06 | HF931M8001 | Connecting box cover | 2 | 2 | 2 | |
| P07 | HF922E8001 | Rheostat | 1 | 1 | 1 | |
| P08 | HF989E7101 | Rheostat wire assy | 1 | 1 | 1 | |
| P14 | HF934M8001 | Button set frame | 1 | 1 | 1 | |
| P14 | HG90M98001 | Button set frame | 1 | 1 | 1 | |
| P15 | HF933M8001 | Button set board | 1 | 1 | 1 | |
| P15 | HG90M88001 | Button set board | 1 | 1 | 1 | |
| P16 | HF937M8001 | Button with light | 3 | 2 | 2 | |
| P17 | HF937M8002 | Button without light | 2 | 2 | 2 | |
| P18 | HF928M7101 | Button wire assy | 1 | 1 | 1 | |
| P19 | H415040060 | Screw | 4 | 4 | 4 | |
| P20 | HG113M7101 | Plotting | 1 | 1 | 1 | |
| P21 | HG91M17101 | Control box wire assy | 1 | 1 | 1 | |
| P22 | HG125M7101 | Solenoid valve wire assy | 1 | 1 | 1 | |
| P23 | HG127M7101 | Solenoid valve set board | 1 | 1 | 1 | |
| P24 | HF917M8001 | Screw | 2 | 2 | 2 | |
| P25 | HF916M7101 | Air source units | 1 | 1 | 1 | |
| P26 | HG105M7101 | Solenoid valve assy | 1 | | | |
| P26 | HG90M57101 | Solenoid valve assy | | 1 | 1 | |
| P30 | H4918N8001 | Solenoid valve | 2 | 2 | 2 | |
| P31 | H4924N8001 | Exhaust muffler | 4 | 4 | 4 | |
| P32 | H4917N8001 | Wire joint | 1 | 1 | 1 | |
| P33 | H4916N8001 | | 1 | 1 | 1 | |
| P34 | HF960M8001 | | 1 | 1 | 1 | |
| P35 | HG119M8001 | | 1 | 1 | 1 | |
| P36 | HF959M8001 | | 2 | 2 | 2 | |
| P37 | H409040500 | | 2 | 2 | 2 | |
| P38 | H005008040 | Spring washer | 2 | 2 | 2 | |
| P39 | H005001040 | | 6 | 6 | 6 | |
| P40 | H003002040 | Nut | 2 | 2 | 2 | |
| P41 | | Solenoid valve cover | 1 | 1 | 1 | |
| P42 | H409040100 | | 2 | 2 | 2 | |
| P43 | HZ11040120 | | 4 | 4 | 4 | |
| | 1211040120 | Serew | , | - | 4 | |