

User Manual

GARUDAN[®]

*Industrial eyelet buttonhole
sewing machine*

GBH-6010-G



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EC DECLARATION OF COFORMITY

We hereby declare that the under mentioned machine complies with EC machinery Directive.

Machine Description : Industrial Eyelet Buttonhole Sewing Machine

Model Name : GBH-6010-G

Machine Serial Number : See the Serial Number Plate of the Machine

Machinery Directive : 89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 89/655/EEC

This declaration relates is in conformity with the following standard(s) or other normative document(s).

EN60204-1:98, EN60204-31:02, EN292-1:91, EN292-2:91, EN61000-3-2:95/A1:98/A2:98

EN61000-3-2:00, EN61000-3-3:95, EN61000-3-3:95/A1:01, EN61000-4-2:95/A1:98

EN61000-4-3:95/A1:98, EN61000-4-4:95/A1:00, EN61000-4-6:96/A1:00, EN55011, ENV50204

IEC60204-31:96, IEC60204-31:01, IEC61000-3-2:00, IEC61000-3-3:94, IEC61000-3-3:94/A1:01

SAFETY INSTRUCTION-1

Be sure to read the operation manual thoroughly before attempting to operate the machine. After reading, be sure to keep this manual near the machine any time to read again.

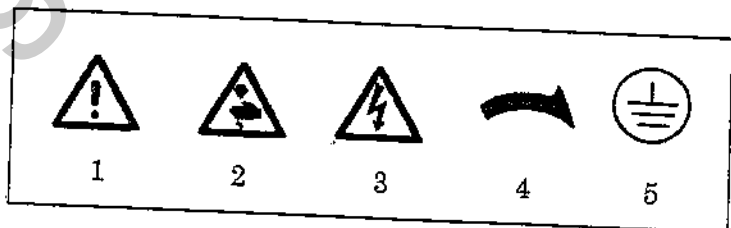
To non-observance of the following safety instructions can cause bodily injuries or damage to the machine.

A) EXPLANATION OF DANGER, CAUTION AND NOTICE

1. Danger :There is a risk of death, serious injuries or damage to the body or machine in case of miss-operation, maintenance, miss-adjustment or other when in use of machine.
2. Caution :There is a risk of death, serious injuries or damage to the body or machine in case of miss-operation, maintenance, miss-adjustment or other when in use of machine.
3. Notice :There is a risk of injuries or damage to the body or machine in case of miss-operation, maintenance, miss-adjustment or other when in use of machine.

B) EXPLANATION OF INDICATION LABEL

1. Danger, Caution and Notice
2. Injury
3. Electric shock
4. Direction of correct rotation
5. Mark of ground



C) DANGER

To prevent the electric shock, switch off the main switch and pull out the main plug from outlet when opening motor cover, electronic devices, control box or in case that there is possibility of thunderbolt.

D) CAUTION

- This machine should be used by the correct voltage, check the machine serial number plate and seal of the cord plug for it before operating the machine.
- Never drop or wet the foot switch.
- The machine should be only started and operated after having read the operation manual very carefully, and only be according trained persons.
- This machine should be only used for the purpose intend as industrial sewing machine.
- All safety devices must be in the original position when the machine is ready for working or when in use. Using the machine without safety devises is prohibited.
- For your personal protection, it is recommended that you wear safety glasses.

- If alterations are made to the machine, all of the machine safety rules must be considered. Conversions and changes are made at your own risk.
- Maintenance, repair and conversion works (see item 5) must be only done by trained technicians or qualified personnel. Only genuine spare parts approved by manufacture should be used for repair.
- Any work on the electrical equipment must be done by qualified electricians or under direction and supervision of qualified personnel.
- Works on live parts and equipment under electrical tension is prohibited. They are only by trained technicians or qualified personnel.
- The following operations must not be performed until the machine has been disconnected from the power supply by switching off the main switch or by pulling out the main plug.
 - Threading needle(s), loopers, spreaders and gimp thread etc.
 - Replacing parts such as needle(s), presser foot/cloth clamp plate, throat plate, needle guard, loopers, spreaders, feed dog, fabric guide, knife/blade, cutting block and thread trimmer etc.
 - Leaving the work place unattended.
 - Maintenance work.
 - When using clutch motor without actuation lock, wait until the motor has completely stopped.
- Always be aware of moving parts such as needle(s), knife/blade and cloth feed table etc., do not turn your attention from the machine while running.
- Never operate the machine if it has damaged cord or plug, if it is not working properly, if it is dropped into water etc. and if a fabrics or yarns for sewing are damp or wet.
- Never drop or insert any object into any opening places/points of the machine.
- Pay attention to your hand etc. carefully when the cloth feed table is working.
- Never touch or be close your hand or other to the knife when in working.
- Never touch or be close your hand or other to the needle bar or needle when in working.

E) NOTICE

Be sure to read the operation manual thoroughly before attempting to operate the machine. After reading, be sure to keep this manual near the machine any time to read again.

1) Conditions of operating the machine

- A place of operating the machine should be dry and should not be under the influence of the source of high electromagnetic waves or noise.
- Rated voltage which is name plate on the machine should not exceed $\pm 10\%$.
- A limit of operating environment is : Temperature $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$, Humidity $35\% \sim 85\%$
- Switch off the main switch and pull out the main plug, when in danger of thunderbolt.
- Check the electrical devices to prevent the electrical shock etc. before switching on the main switch when changing the environment from cold place to warm one
- Check the main voltage before the cord plug plugs in. Main voltage is indicated on cord plug and machine number serial plate.

2) Conditions for delivery, stock, opening, setting and handling

- In case of delivery the machine, never drop, overthrow and damage to the carton box.
- When re-packing and delivering the machine, fix the machine table and bed with band and use the original carton box. In case of stock of the machine in the warehouse, never pile the carton box, over two (2) cartons and lain piled is prohibited. Place for stock of the machine should be dry.
- To prevent unexpected accidents when opening the carton box and setting the machine on the table, pay attention sufficiently and work with over two (2) persons.
- When setting the machine on the table, pay attention carefully and order the setting in accordance with page 7 ~ 8.

3) Emergency button

When in emergency such as thread breakage, needle broken or other problem while the machine is working, push the emergency button immediately.

How to recover the machine from emergency stop;

- Switch off the main switch, wait for 10 ~ 15 sec. and switch on the main switch again.
- Press the start and left foot switch at the same time.

The needle bar comes to the highest position and the feed table returns to the original/start position without sewing, and the cloth clamp opens/unlocks automatically.

Never touch electronic devices or open the motor cover/control box cover because electricity is still supplying even if the emergency button is on.

4) Repair, maintenance or adjustment

• If alterations are made to the machine, all of the machine safety rules must be considered. Conversions and changes are made at your own risk.

• Maintenance, repair and conversion works (see item 5) must be only done by trained technicians or qualified personnel. Only genuine spare parts approved by manufacture should be used for repair.

• Any work on the electrical equipment must be done by qualified electricians or under direction and supervision or qualified personnel.

• Works on live parts and equipment under electrical tension is prohibited. They are only by trained technicians or qualified personnel.

• The following operations must not be performed until the machine has been disconnected from the power supply by switching off the main switch or by pulling out the main plug.

- Threading needle(s), loopers, spreaders and gimp thread etc.
- Replacing parts such as needle(s), presser foot/cloth clamp plate, throat plate, needle guard, loopers, spreaders, feed dog, fabric guide, knife/blade, cutting block and thread trimmer etc.
- Leaving the work place unattended.
- Maintenance work.

5) Foot switch/optional hand switch

• Keep the foot switch/optional hand switch dry anytime when in use.

• Keep the foot switch/optional hand switch clean anytime when in use.

• Never use the foot switch/optional hand switch if it got wet or the cord of it is damage.

• Be careful to operate the foot switch/optional hand switch when the select switch is "1" one pedal start. When the position of select switch is "1", the machine starts upon pressing the left foot/hand switch.

6) Cloth feed table

• Pay attention to your hand carefully when in opening or closing the cloth feed table.

• When working the cloth feed table, never touch it or go your hand into a space.

7) Control box

• Never open the control box. Maintenance, repair and conversion works must be only done by trained technicians or qualified personnel.

8) Knife/Cutting block, thread trimmer, thread take-up, needle bar and moving parts

• When the machine is working, never touch all moving parts such as above.

• Pay attention to your hand carefully when in use of thread trimmer.

SAFETY INSTRUCTION-2

1. Needle bar guard : Never remove it from the machine
2. Finger guard : Never remove it and the guard must be locked position before the machine start.
3. Buttonhole length indicator : Never touch or adjust it during the machine is running.
4. Operation panel : Never touch or adjust it during the machine is running.
5. Adjust dial for stitch length : Never touch or adjust it during the machine is running.
6. Sewing and cutting area : Never obtain to insert your hand in this area during the machine is running.
7. In an emergency during the machine is running, urgently push the emergency button to stop the machine functions (see the page 22 for instruction of emergency button).

*All covers for the machine must be fixed to the original position before the machine start for safety.

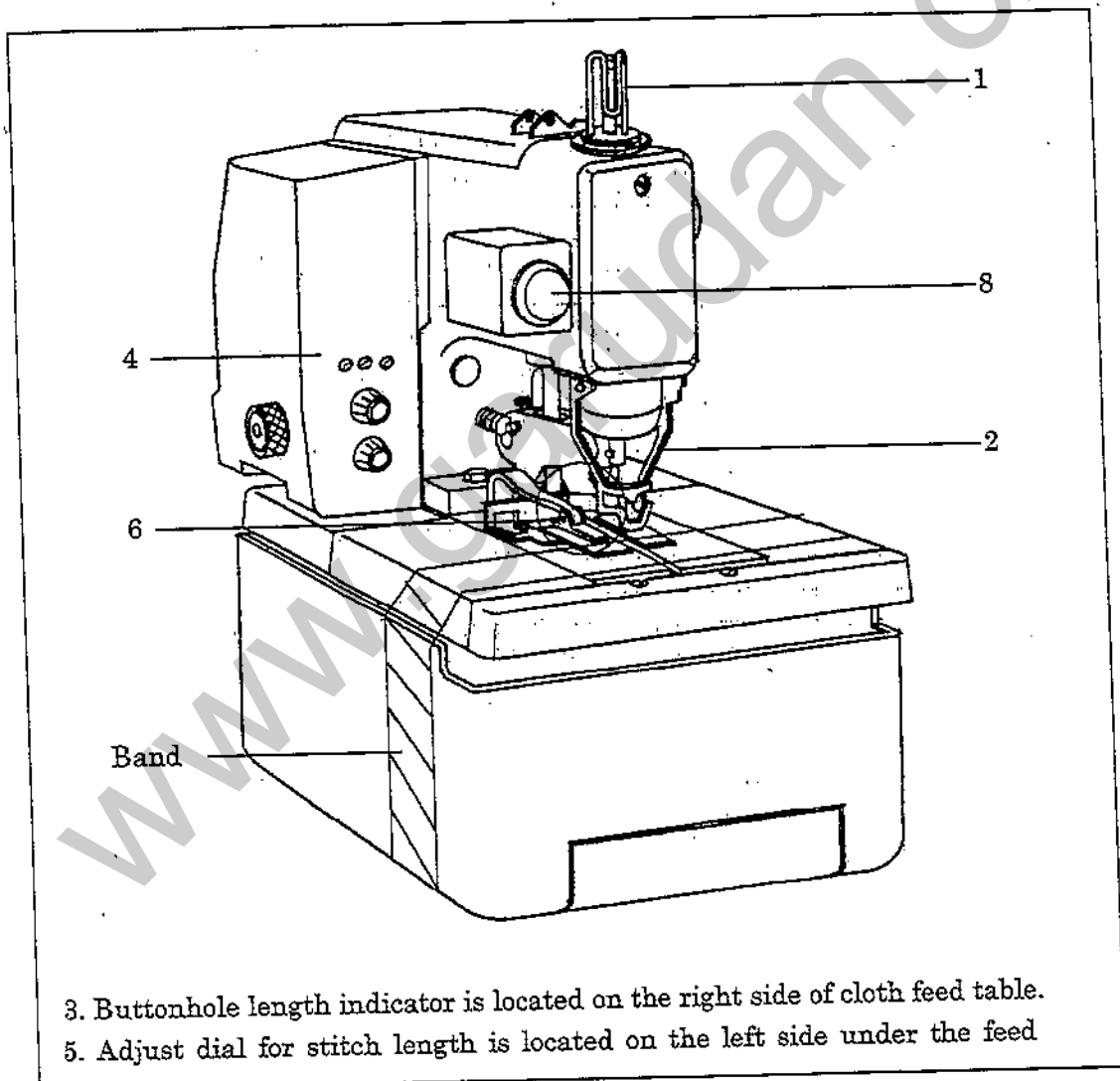


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BEFORE OPERATION

1. SPECIFICATION

Items/Model	: Model GBH-6010-G
Stitch type	: One (1) needle double-chain stitch
Sewing speed	: 1,000 spm/min. ~ 2,000 spm/max.
Needle system	: Schmetz system 558 #90 ~ #110
Buttonhole length	: 14mm ~ 40mm (without taper bar)
Stitch length	: 0.5mm ~ 1.5mm
Taper bar length	: 4mm ~ 9mm
Stitch width	: 2.2mm ~ 3.2mm
Upper cloth clamp height	: 10 ~ 12mm
Type of buttonhole	: Eyelet and Straight buttonhole
Sewing selection	: C/B, C/A, Sewing only, Cut only
Power	: AC220V ~ 230V/3A, 1-phase, 50/60Hz, 200W (See the serial number plate for actual voltage before operating)
Measurement	: W300 x L500 x H460
Weight	: N/W 45kg(inc. control box)

2. STANDARD ACCESSORIES

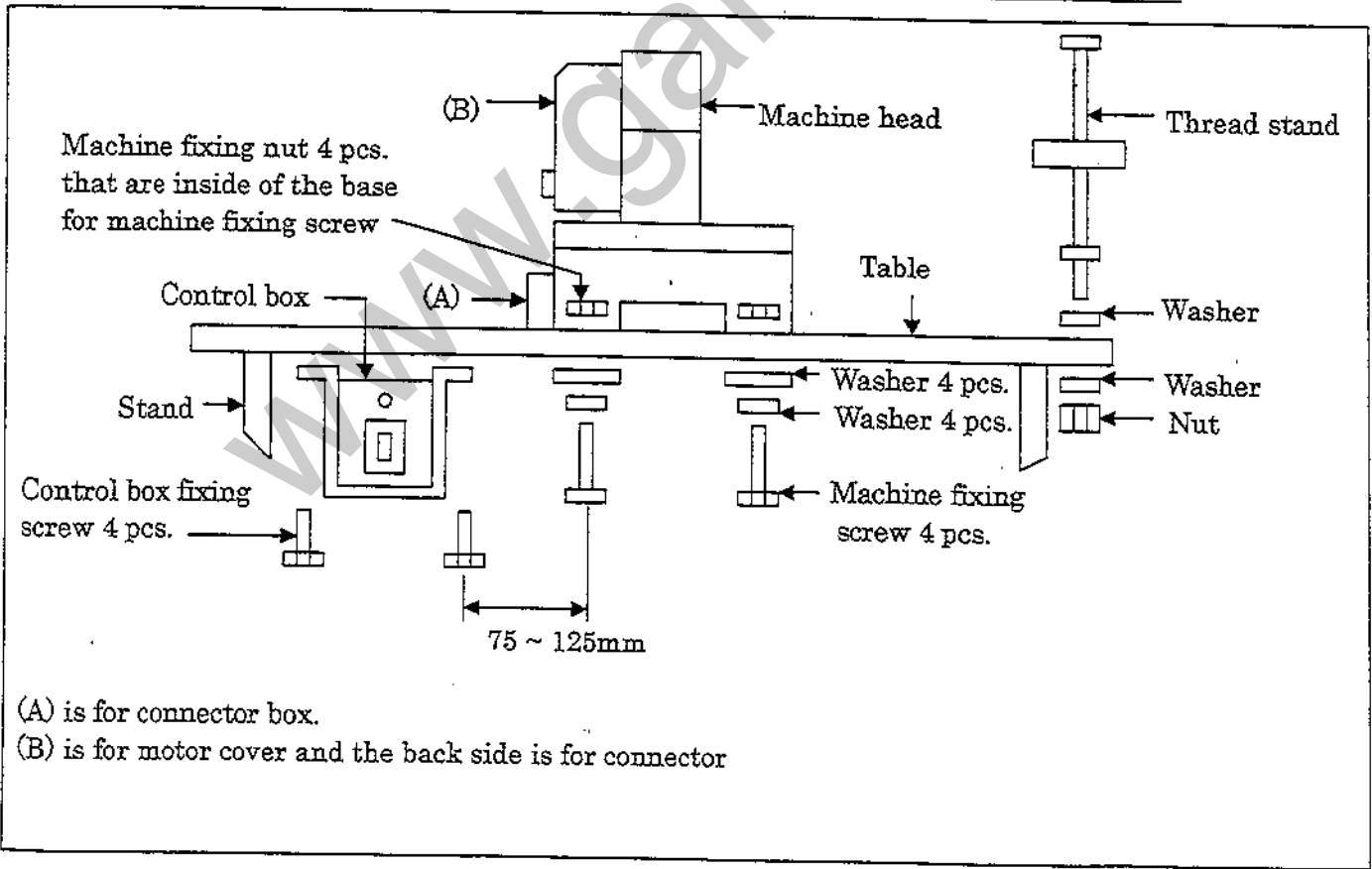
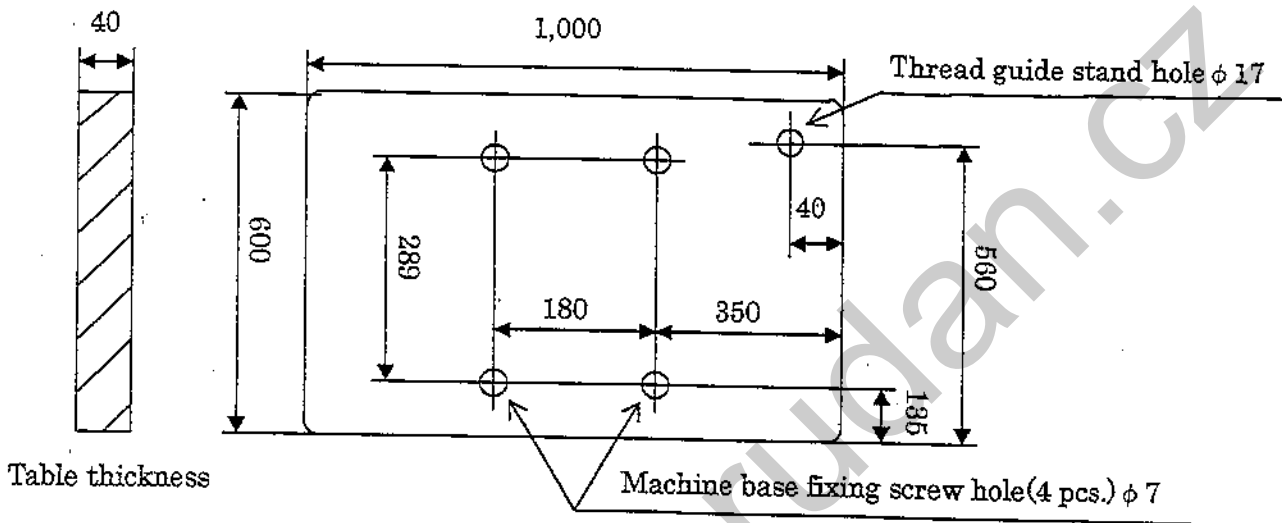
a) Instruction manual	-----	1
b) Parts list	-----	1
c) Tread guide stand	-----	1
d) Screwdriver (large)	-----	1
e) Threading bar	-----	1
f) Machine cover	-----	1
g) Oil can	-----	1
h) Foot switch	-----	1
i) Control box	-----	1
j) Accessories box including under items	-----	1
- Spanner (size 8 - 10mm)	-----	1
- Tweezers	-----	1
- Cleaning brush	-----	1
- Needle thread threading wire	-----	1
- Needle Schmetz system 558 #110	-----	10
- Knife for straight (size 35mm)	-----	1
- Cutting block for eyelet (size 35mm)	-----	1
- Cutting block for straight (size 35mm)	-----	1
- Blade for needle thread trimmer	-----	1
- Safety cap	-----	5
- Needle thread tension spring (size ϕ 1mm)	-----	1
- Machine base fixing screw + washer + nut	-----	4 each (large and small washer = 4 each)
- Control box fixing screw	-----	4

3. SETTING THE MACHINE ON THE TABLE AND FOOT SWITCH

CAUTION : To prevent unexpected accidents when opening the carton box and setting the machine on the table, pay attention sufficiently and work with over two (2) persons.

After taking out the machine from the carton box, place the machine on the sewing table with machine base fixing screw completely. After fixing the machine head on the machine table, remove the feed table lock belt. Install the thread guide stand into the machine table and main control box with screw under the sewing table. Insert the main code into the connector of machine backside and foot switch code connector into the main control box as shown in figure.

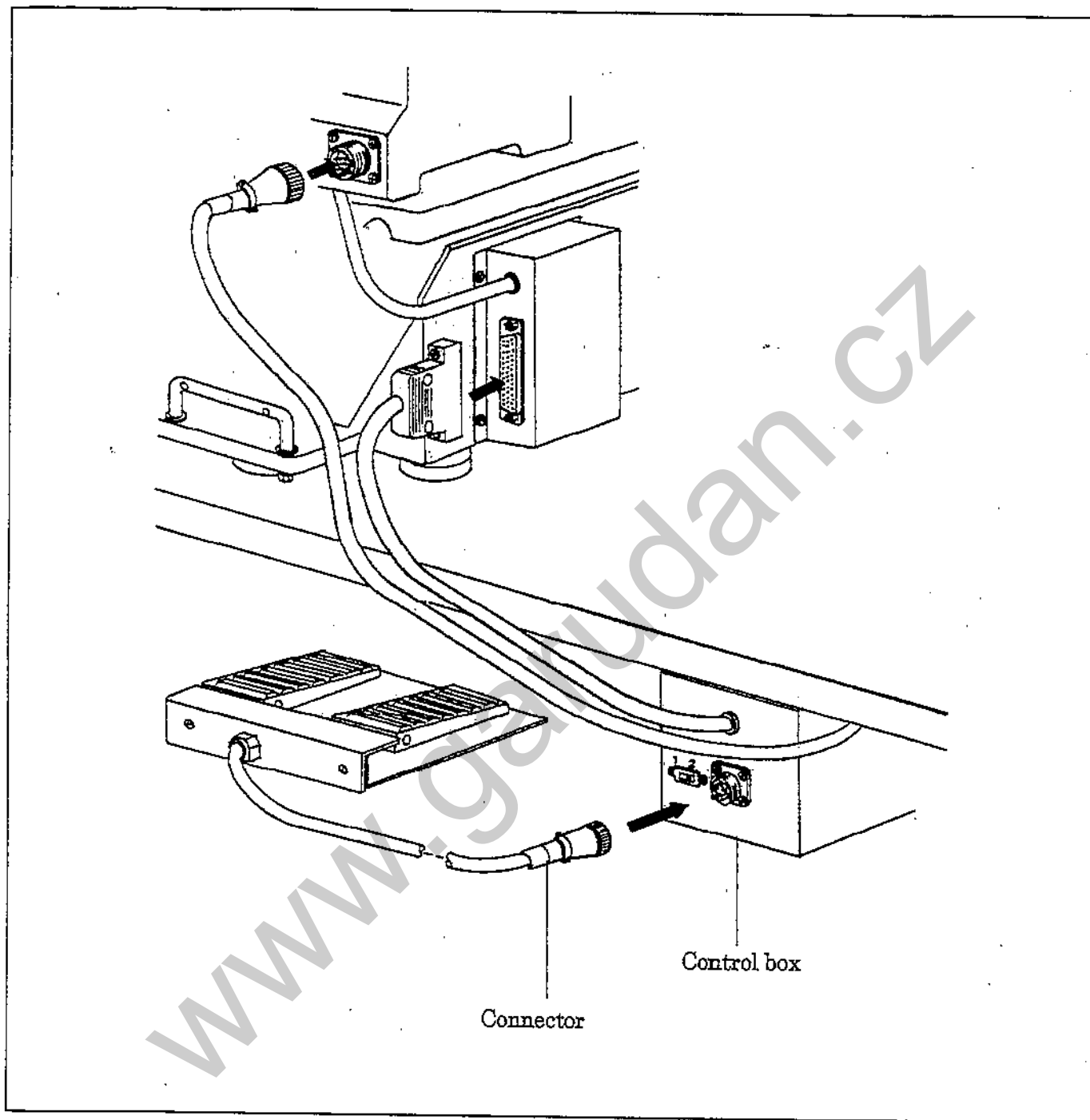
RECOMMENDED MACHINE TABLE SIZE : mm



(A) is for connector box.
 (B) is for motor cover and the back side is for connector

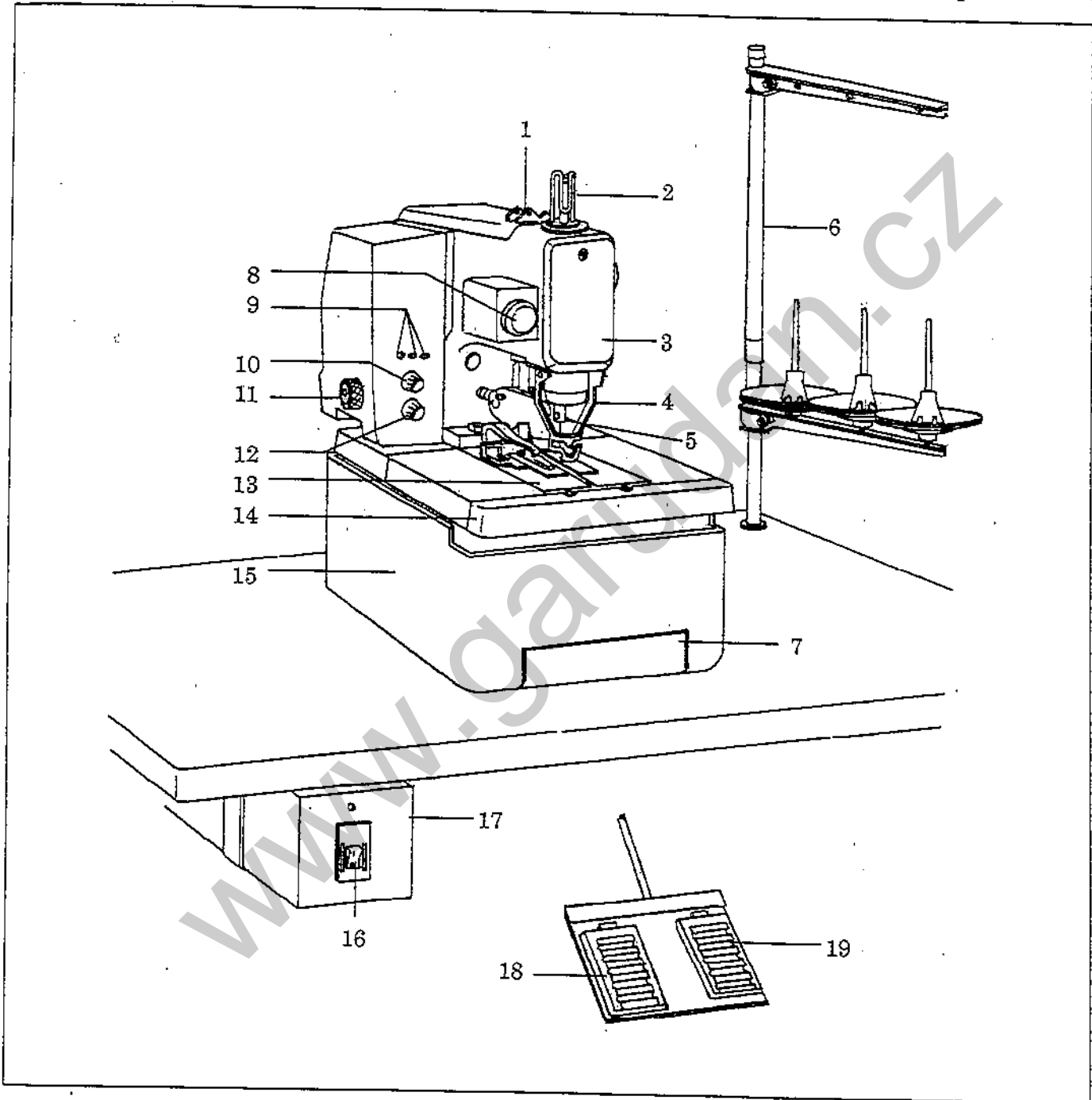
CAUTION : Never connect the main plug and switch of the main switch before the machine set.

Before insert each connectors, once again please check that the machine head, control box and thread stand are fixed to the machine table. After check them, insert each connectors as following figure.



4. PART OF THE MACHINE

1. Thread guide, 2. Needle bar guard, 3. Face plate, 4. Finger guard, 5. Needle bar, 6. Thread guide stand
7. Waste saucer, 8. Emergency button, 9. LED lamp, 10. Sewing speed control knob, 11. Knife release knob
12. Sewing selector knob, 13. Cloth clamp plate, 14. Feed table, 15. Machine base, 16. Main switch with breaker
17. Control box, 18. Foot switch for start, 19. Foot switch for cloth clamp lock/unlock



Item number 7, see page 14

Item number 10 and 12, see page 18

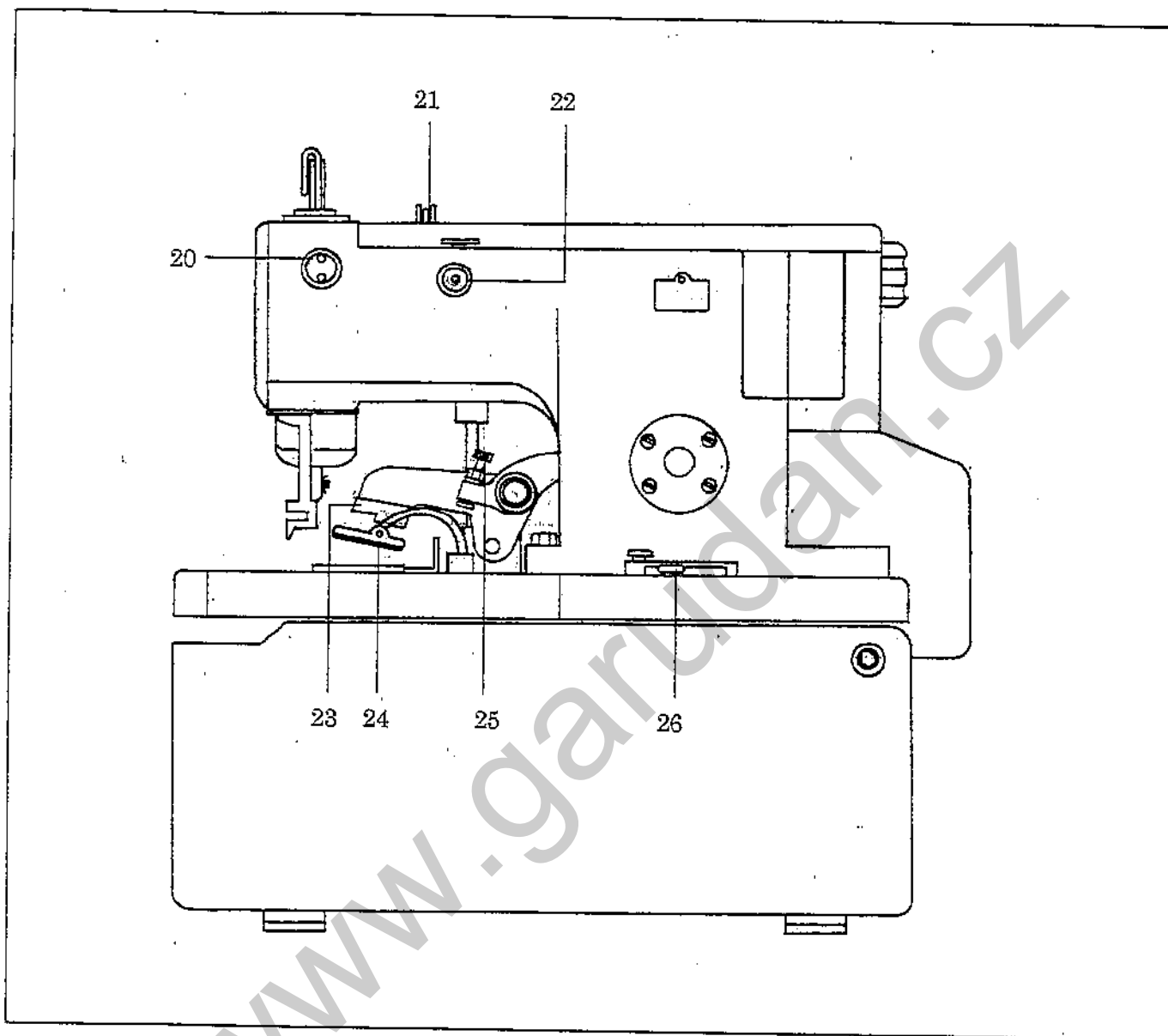
Item number 13, see page 15

Item number 8 and 9, see page 22

Item number 11, see page 22 and 24

Item number 18 and 19, see page 20 and 21

20. Cut space adjustment dial, 21. Needle thread take-up, 22. Needle thread tension knob, 23. Cutting block, 24. Cloth clamp, 25. Knife pressure adjustment screw, 26. Buttonhole/taper-bar length adjustment indicator



Item number 20, see page 22

Item number 23, see page 17, 22 and 24

Item number 24, see page 12

Item number 25, see page 23

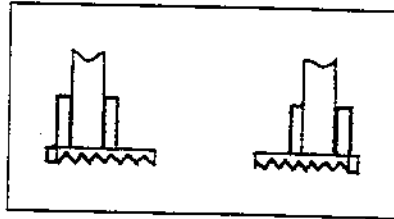
Item number 26, see page 17

5. TYPE OF CLOTH CLAMP

Four types of cloth clamp are prepared for the machine. Details as follows:

1) Flat type of cloth clamp

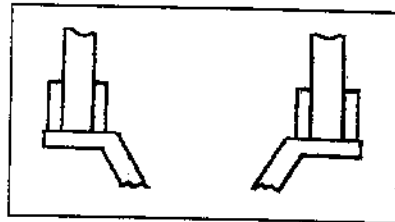
- a) Part No. S1-2791A(right) and S1-2792A(left) for buttonhole size 14mm ~ 27mm
- b) Part No. S1-2791(right) and S1-2792(left) for buttonhole size 27mm ~ 40mm



2) Wedge type of cloth clamp

Part No. SZ-2791(right) and SZ-2792(left) for buttonhole size 14mm ~ 35mm

NOTE: Machine model GBH-6010-G is equipped with above parts as standard clamp.



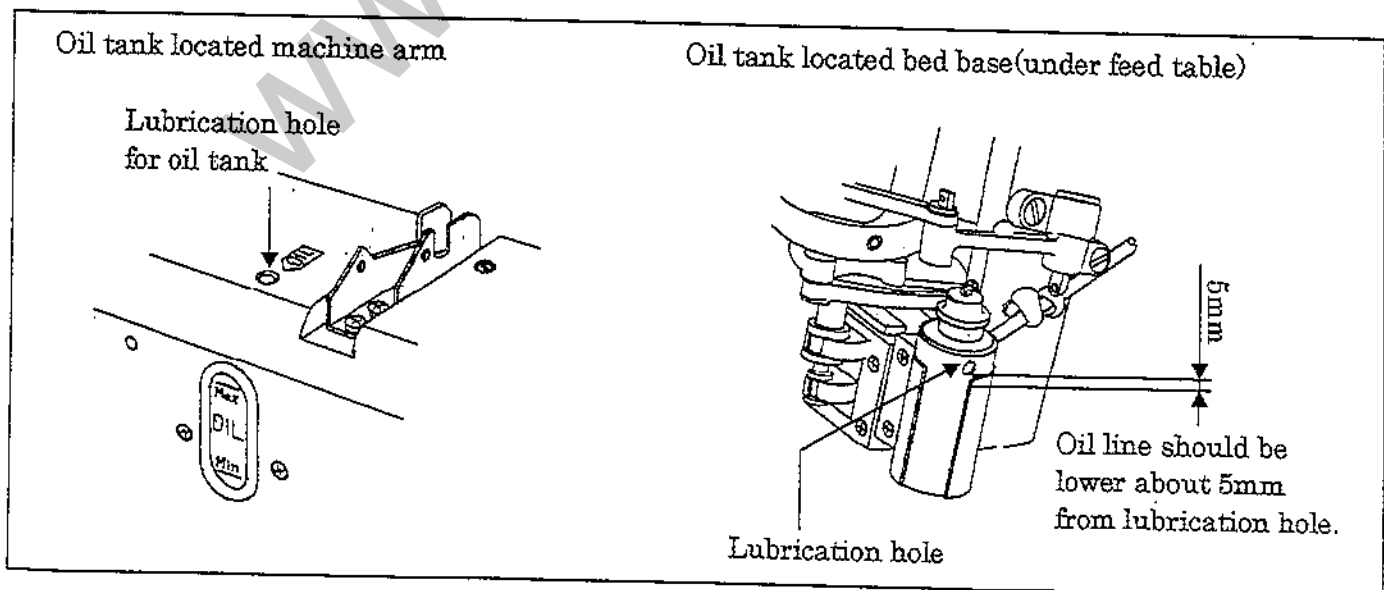
When changing from the wedge type to the flat type or reverse of it, please contact with your agent.

6. OILING

CAUTION: Switch off the main switch before oiling.

When lubricating the machine, use high quality sewing machine oil.

Please check the oil tank whether oil comes to the red line (max.) before operating the machine. If oil is not enough, add it until it comes to the red line (max.). The oil tank must be checked once a week at least before operating.



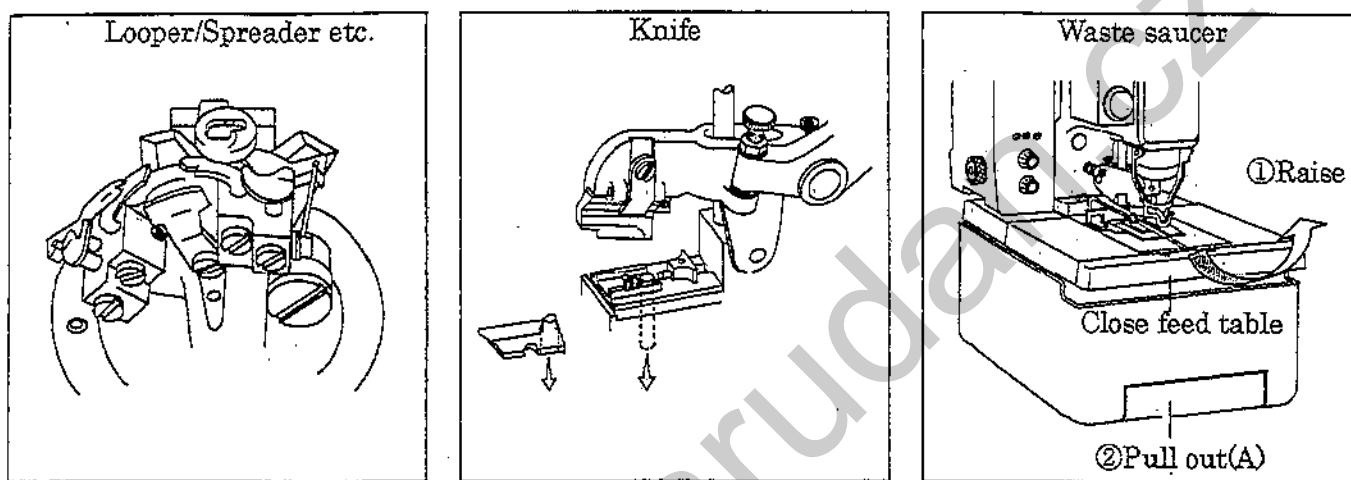
7. CLEANING

CAUTION: Switch off the main switch before cleaning. Pay attention to your hand when in close the cloth feed table and remove or set the waste saucer.

To use the machine with best condition for long time without some trivial problem, you should clean the machine daily after operating. Important areas are around loopers/spreaders, bottom of the machine base, cloth feed table and knife/cutting block. Clean up the hole of knife and the hole under the knife once a week at least to prevent a knife broken.

How to remove the waste saucer (A) : Raise the cloth feed table, pull out (A) toward your side completely and clean up it. After cleaning, place it to original position anytime when the machine ready for start.

NOTE: Never use a compressed air for cleaning in order to avoid some problem that a small dust go into the important parts such as main cam etc.



8. NEEDLE

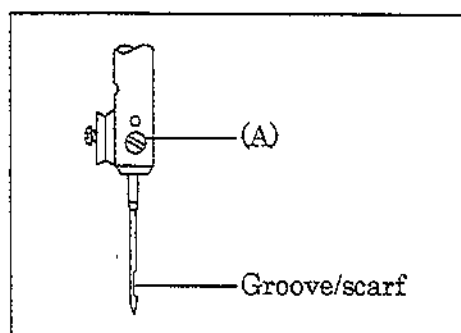
CAUTION: Switch off the main switch before changing.

Needle system of your machine is "SCHMETZ system 558" size #90 ~ #110. Never use over size #110 to the machine. The machine is adjusted and equipped with size #90 or #110 at the factory.

Your machine is adjusted and equipped with size #110.

When changing the needle size (for example: #90 → #110 or #110 → #90), you are requested to readjust the position of loopers, spreaders and needle guard because the thickness of needle is different depend on the needle size. If you changed the needle size from #90 to #110 and operated the machine without readjust the position of those parts, the needle would hit those parts. The worst case is that those parts will be broken or skip/jump stitch will happen. Please contact your agent when you wish to change.

To replace the needle, loosen the screw (A) and remove the old one. Insert a new one into the hole of the needle bar as deep as possible. When the machine is the start position, the groove/scarf of needle should be in the direction of your side.



9. THREADS

Appearance or performance of buttonhole is determined by used thread. Poor grade thread will happen some stitch problem such as fraying/jump stitch or thread is snapped. To keep a good stitch performance, please use a high quality thread for buttonhole machine.

Our recommended thread as follows:

- For needle thread : Cotton-covered polyester thread (#70/3) or Synthetic thread (#30/3)
- For looper thread : Cotton-covered polyester thread (#70/3) or Synthetic thread (#30/3)
- For gimp thread : Twisted gimp thread (flexible type)

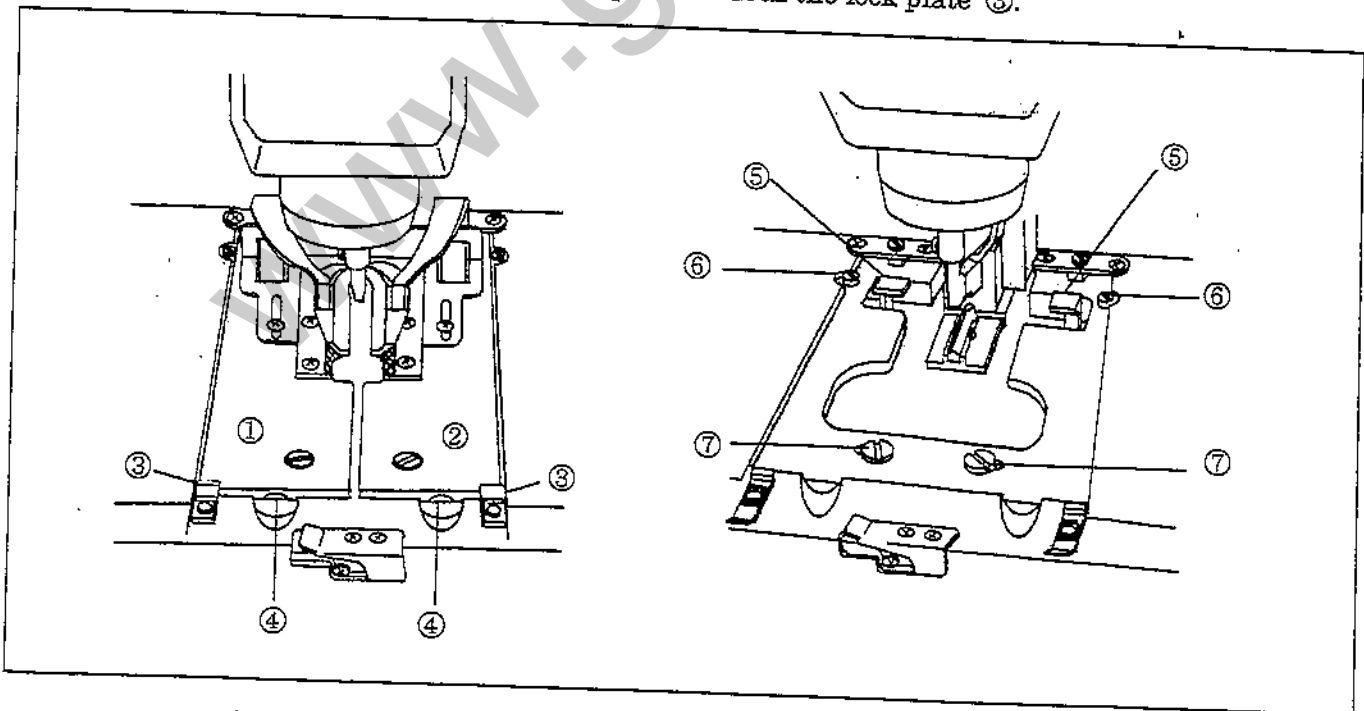
SETTING UP YOUR MACHINE FOR SEWING

1. HOW TO REMOVE OR REPLACE THE CLOTH CLAMP PLATE

CAUTION: Switch off the main switch.

When removing or replacing the left ① and right ② of cloth clamp plate, the machine should be in the start position and the cloth clamp should be unlocked.

- * Removing : Release the lock plate ③, seize below the respective nail groove left or right ④ with your thumb. Raise the plate and pull it toward you.
- * Replacing : Insert the forks of cloth clamp plate into the clamp actuating nail ⑤ and push the plate while pressing the pin ⑥ to outside. And then, insert a hole of its plate into the respective screw ⑦.
After replacing both plates, switch on the main switch and push the cloth clamp lock button whether both plates are locked completely. Push again the cloth clamp lock button to release/open both plates. Lock the lock plate ③.



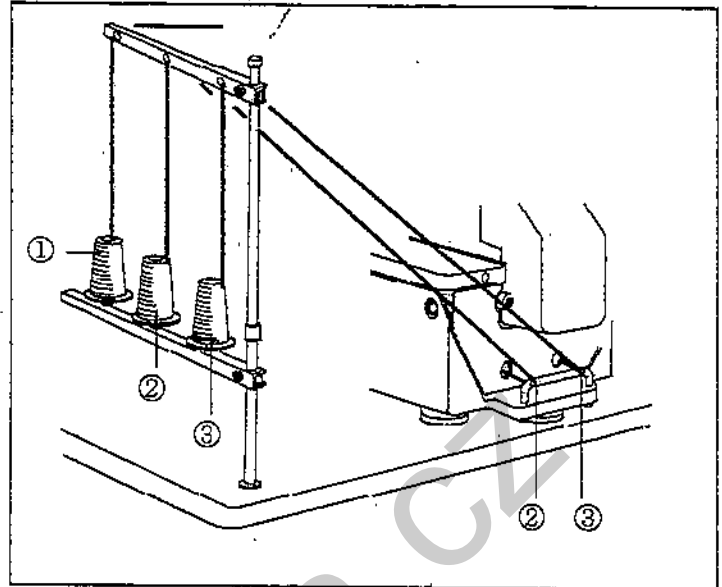
2. SETTING FOR A CONE THREADS

CAUTION: Switch off the main switch before threading. Pay attention when all threads are threading to prevent troubles.

Place each cones into cone holder securely as shown in figure.

- ① ----- Needle thread
- ② ----- Loper thread
- ③ ----- Gimp thread

Pass the thread ② and ③ through a hole of the handle type thread guide and bring them under the machine bed.

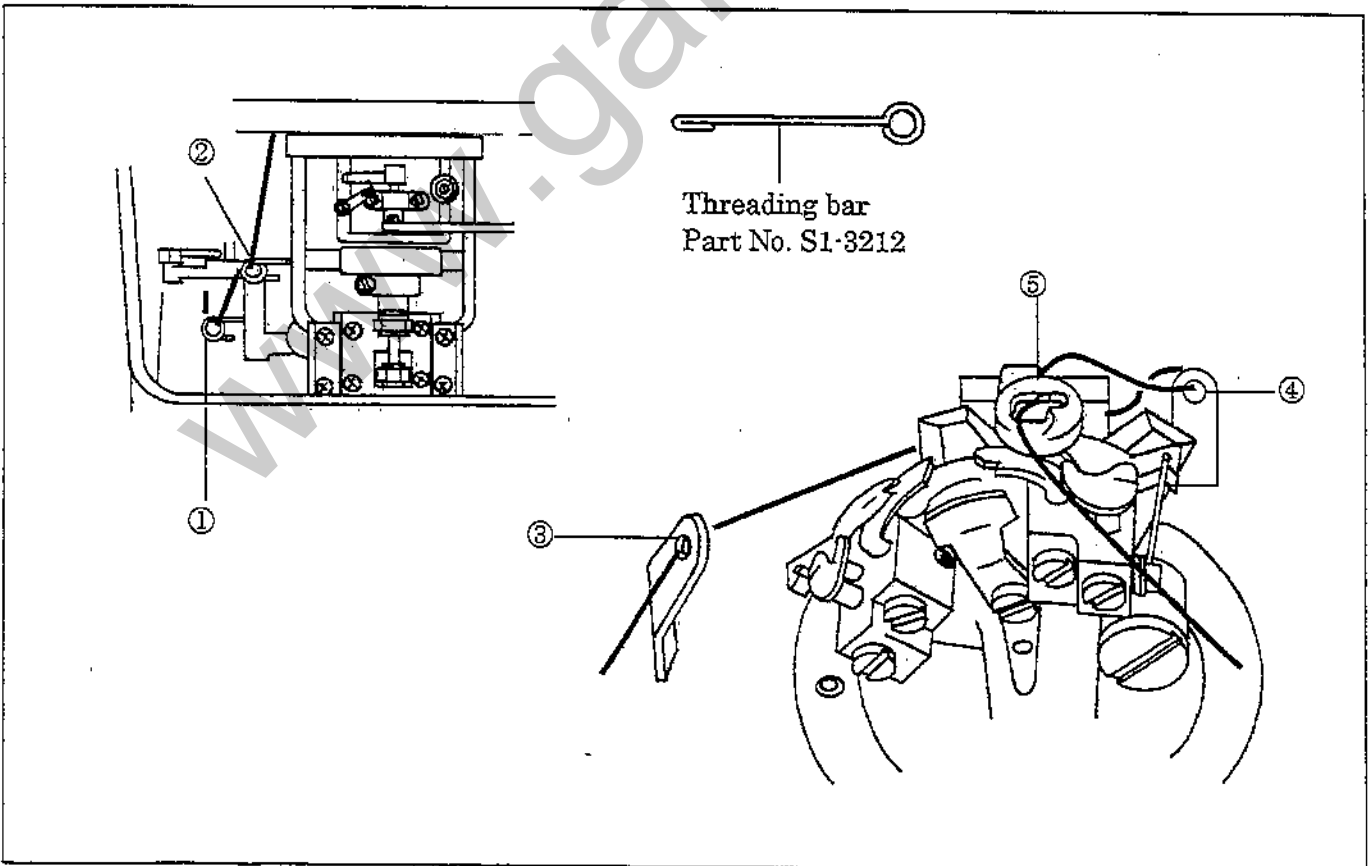


3. THREADING FOR THE GIMP, LOOPER AND NEEDLE THREAD

CAUTION: Switch off the main switch before threading.

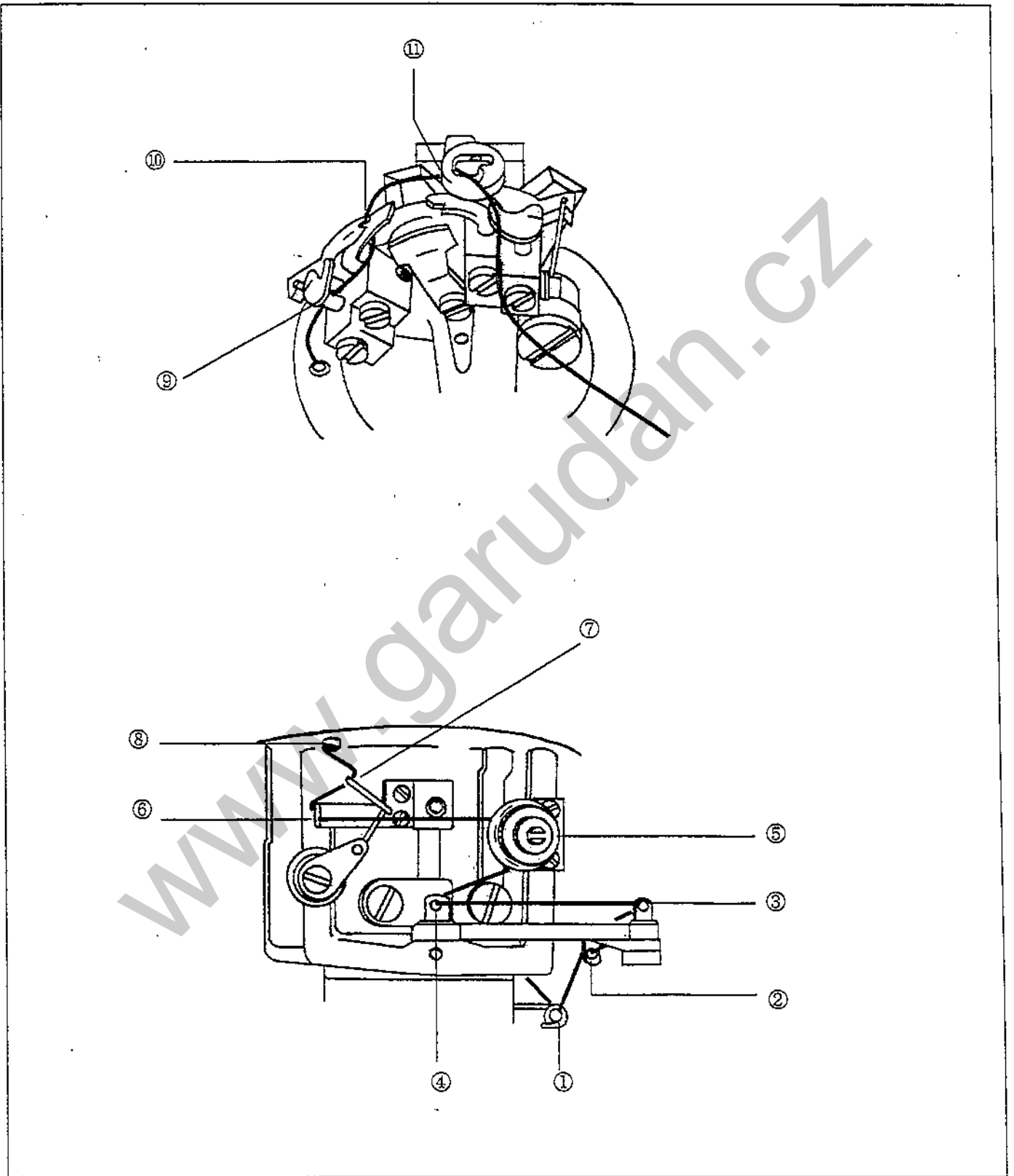
a) Gimp thread

Before threading, remove both clamp plate and raise the feed table. Thread the gimp thread in the sequence ① through ⑤. When passing the gimp thread through ① and ②, use the threading bar which is in the carton box.



b) Loper thread

Thread the looper thread in the sequence ① through ⑩. When passing the looper thread to ①, use the threading bar which is in the carton box as shown in figure.

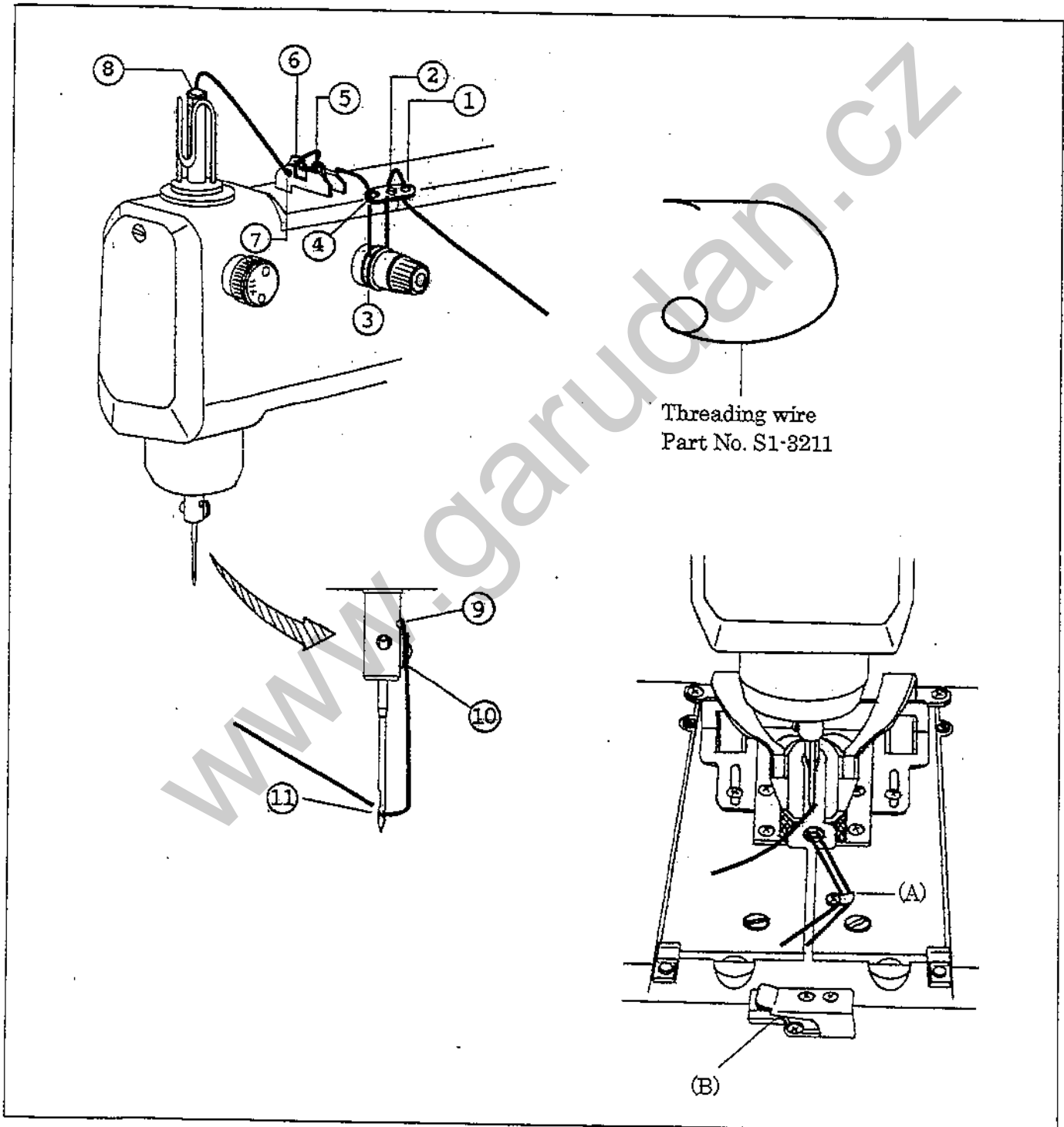


c) Needle thread

Place the cloth feed table into original position and thread the needle thread in the sequence ① through ⑪. Point ③ and ⑩, pass the thread between both tension discs.

When threading the needle thread into a hole of the needle bar ⑧, use the threading wire which is in the accessory box. Insert the wire from lower hole ⑨ of the needle bar as shown in figure.

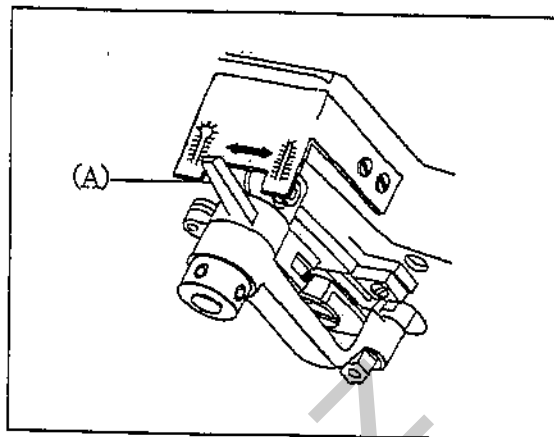
After threading all thread, replace both cloth clamp plate to the original position and clip the gimp and looper thread with the clip plate (A). (B) is the thread trimmer for cutting the gimp and looper threads after sewing.



4. SETTING FOR EYELET OR STRAIGHT BUTTONHOLE

CAUTION: Switch off the main switch before setting.

Raise the cloth feed table. Selecting lever is pre-set to EYELET position at the factory. For STRAIGHT BUTTONHOLE sewing, move the lever (A) to the right direction until the lever is completely locked. At the same time, change the knife and cutting block for straight buttonhole sewing. Those parts are in the accessory box and optional parts, see page 18.

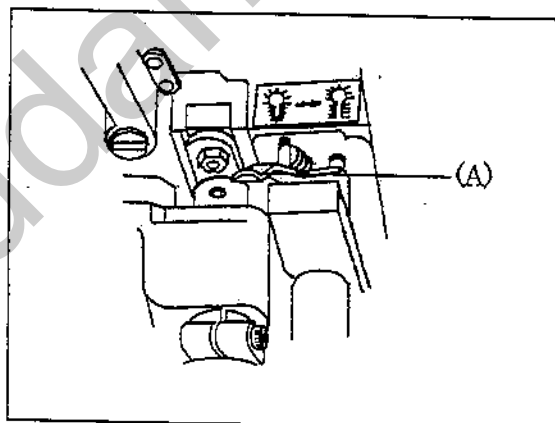


CAUTION: Never move the lever (A) during the machine is working. It is a cause of trouble.

5. SELECTING FOR WITH OR WITHOUT TAPER BAR

CAUTION: Switch off the main switch before selecting.

Raise the cloth feed table. Move the lever (A) to your desired type until the lever is locked. The left is for taper bar and the right is for non taper bar sewing.



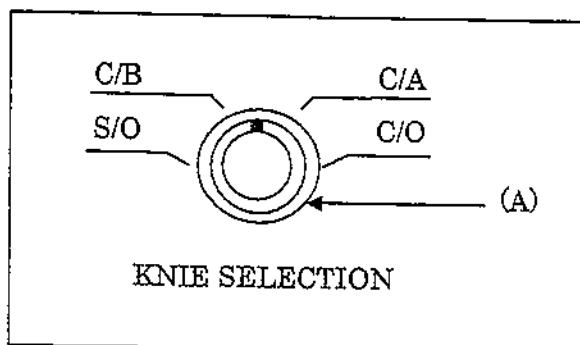
CAUTION: Never move the lever (A) during the machine is working. It is a cause of trouble.

6. SELECTING FOR C/B, C/A, SEWING ONLY AND CUT ONLY

The sewing selector knob (A) is pre-set to "S/O" position at the factory. Rotate and set the knob (A) to your desired sewing.

Meaning of each position :

- a) C/B ----- Cut before sewing
- b) C/A ----- Cut after sewing
- c) S/O ----- Sewing only (without cut)
- d) C/O ----- Cut only (without sewing)



CAUTION: Never rotate the sewing selector knob during the machine is working. It is a cause of trouble.

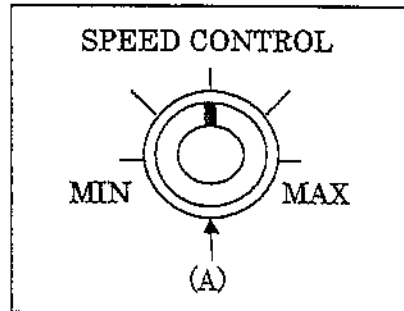
7. SETTING FOR SEWING SPEED

Sewing speed is adjustable Min.1,000spm. ~ Max.2,000spm by sewing speed control knob.

Before starting the machine, set the sewing speed to your desired speed. If you adjust the sewing speed control knob during the machine is working, the sewing speed does not changed.

NOTE: When the stitch is some jump/skip at the top speed, reduce the speed. It is one of solution.

CAUTION: Never rotate the sewing speed control knob during the machine is working.



8. SETTING FOR BUTTONHOLE AND TAPER BAR LENGTH

CAUTION: Switch off the main switch before setting.

a) Setting buttonhole length

The buttonhole length is adjustable between 14mm to 40mm. Loosen the screw (A), move the indicator (B) to the desired length and tighten the screw (A). When you want to have maximum 40mm, loosen the screw ① and set the taper length to 9mm(max.), and then set the indicator (B) to 40mm.

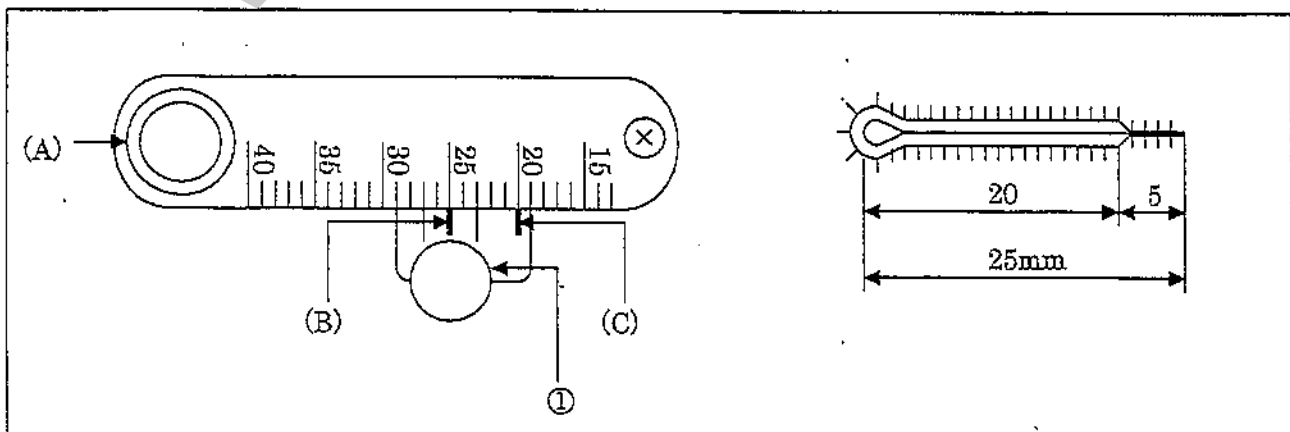
IMPORTANT : When changing the buttonhole length, size of the cutting block must be corresponded to the buttonhole length. See page 18 for size of cutting block.

b) Setting for taper bar length

The taper bar length is adjustable 4mm ~ 9mm. Loosen the screw ①, move the indicator plate (C) and tighten the screw ①.

CUTION: Maximum buttonhole length including taper bar is 35mm. Never move the indicator (B) to 40mm.

IMPORTANT : If you want buttonhole length 20mm with taper bar 5mm (total 25mm), adjust the indicator (B) to 25mm and indicator (C) to 20mm. In this time, size of cutting block should be 20mm. Before actual sewing, please test the sewing with sample materials.



9. SIZE OF KNIFE AND CUTTING BLOCK

The machine is pre-set the knife size 35mm and cutting block size 24mm at the factory. Other size of cutting block No. S1-2519, S1-2523 and straight knife No. S1-2522 is in the accessory box as standard accessories. Details of knife and cutting block as follows.

a) For eyelet knife and cutting block

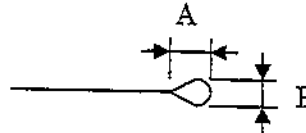
Part No. for the knife of eyelet

Your machine is pre-set the part No. S1-2520A knife at the factory for cut after sewing mainly and the part No. S1-2520 knife for cut before mainly. You had better to change the knife depend on the type of sewing.

*Size of knife of eyelet :

S1-2520 : A - 4mm B - 2.5mm

S1-2520A : A - 3.2mm B - 2.1mm



*Part No. for the cutting block size of eyelet :

S1-2519A - size 22mm, S1-2519B - size 24mm, S1-2519C - size 26mm, S1-2519D - size 28mm,
S1-2519E - size 18mm, S1-2519F - size 20mm, S1-2519G - size 16mm, S1-2519 - size 35mm

a) For straight knife and cutting block

*Part No. straight knife : S1-2522

*Part No. for the cutting block size of straight :

S1-2523A - size 22mm, S1-2523B - size 24mm, S1-2523C - size 26mm, S1-2523D - size 28mm
S1-2523E - size 18mm, S1-2523F - size 20mm, S1-2523G - size 16mm, S1-2523 - size 35mm

10. SETTING FOR THE STITCH LENGTH

CAUTION: Switch off the main switch before setting.

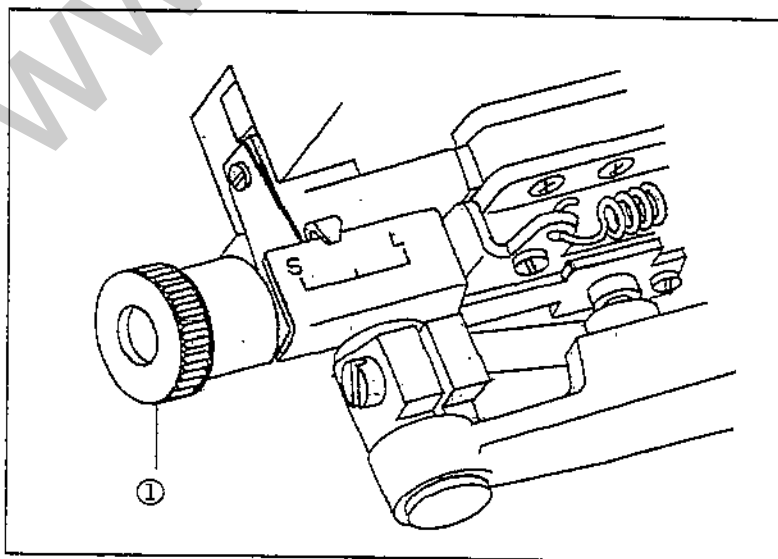
The stitch length is adjustable Min.0.5mm ~ Max.1.5mm with stitch length adjustment knob.

Raise the feed table. Rotate the adjustment knob ① to your desired position.

Increase the number of stitch : Counterclockwise

Decrease the number of stitch : Clockwise

Before actual sewing, please test the sewing with sample material.



11. SETTING FOR THE STITCH DENSITY IN PART OF EYE

CAUTION: Switch off the main switch before setting.

This adjustment is only for the eyelet buttonhole sewing. The straight buttonhole remain unchanged even if the position of lever is adjusted. The adjusting lever is located under the machine bed.

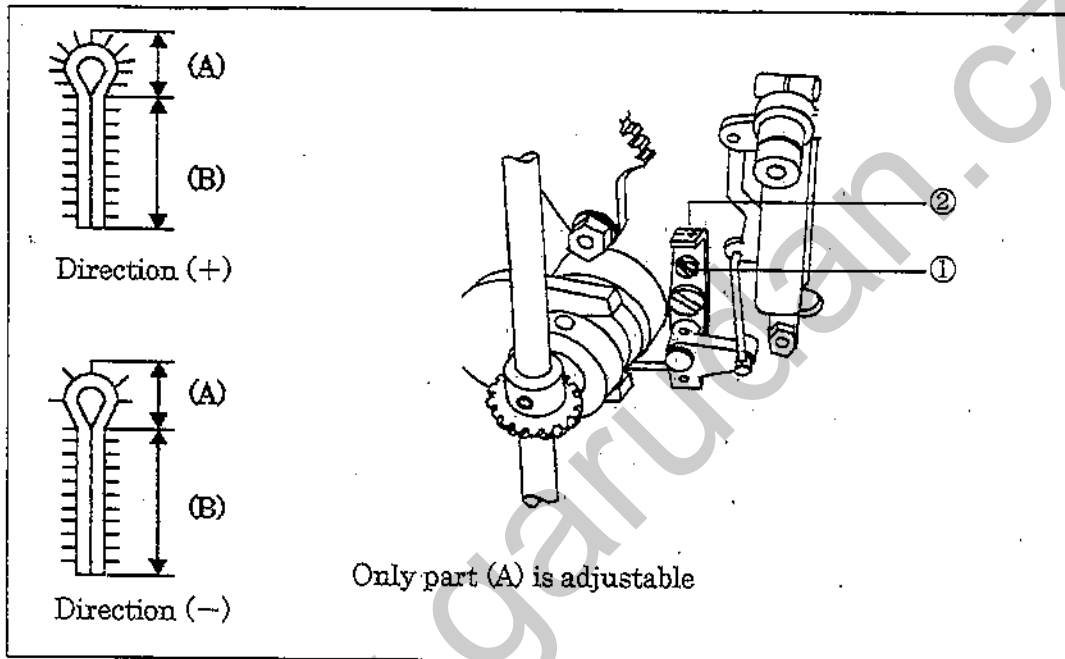
1) Raise the feed table.

2) Loosen the screw ① and move the adjusting lever ② to the direction (+) or (-).

Direction (+) : Increase the number of stitch

Direction (-) : Decrease the number of stitch

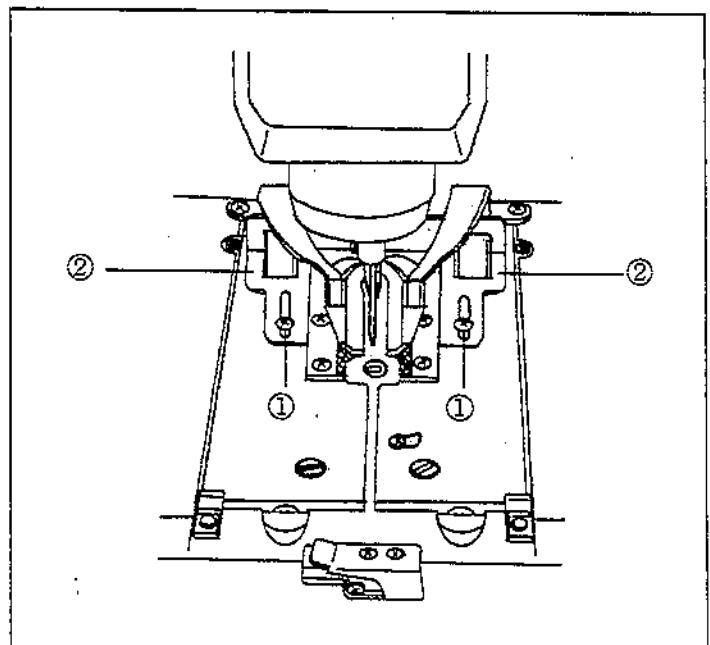
3) After adjusting, tighten the screw ① and check the sewing with sample fabric before actual sewing.



12. SETTING FOR THE POSITION GAUGE

CAUTION: Switch off the main switch before setting.

Loosen the screw ① and adjust the position gauge ② to your desired buttonhole sewing position. Tighten the screw ①. Before actual sewing, please test the sewing with sample material.



13. FOOT SWITCH

CAUTION: Switch off the main switch before installing it into the machine.

The foot switch is in the accessories, insert the connector and screw it to the back side of main control box. Functions for the cloth clamp lock or unlock, and machine start are connected by the foot switch. The right foot switch is for the cloth clamp lock or unlocked and the left one is for the machine start. You can select the machine start that is the two pedal start (right foot switch → left foot switch) or one pedal start (left foot switch only for quick start) by switch (A).

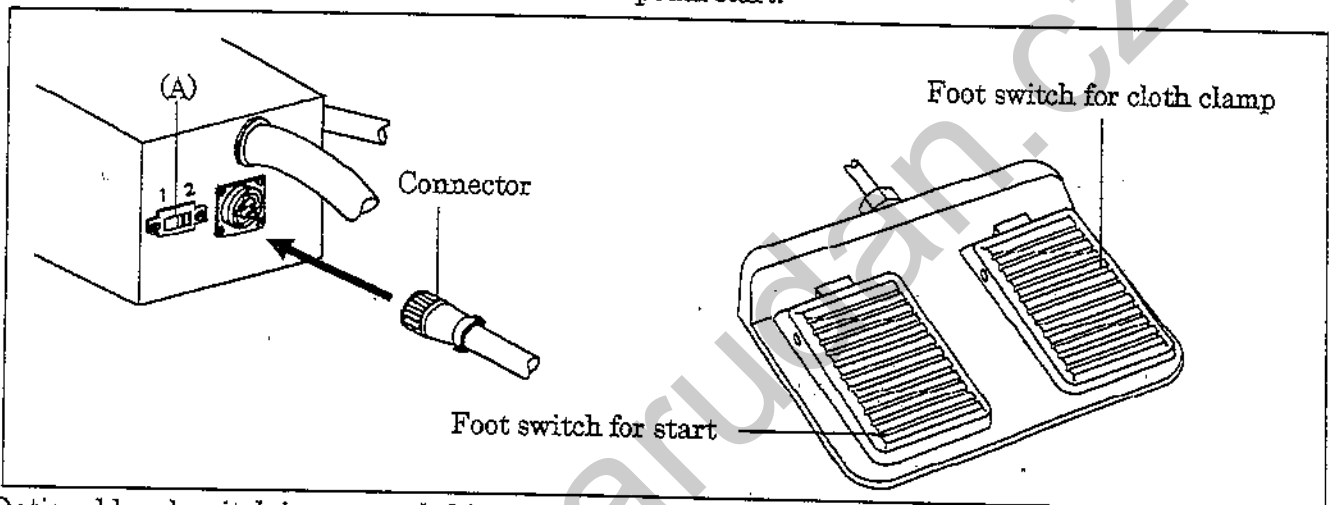
Two pedal start. (A) is "2"

Right foot switch : Cloth clamp lock or unlock

Left foot switch : Machine start

One pedal start. (A) is "1"

Left foot switch : Cloth clamp lock and machine start
You can operate the machine with left switch only, but the right foot switch has the same function as two pedal start.



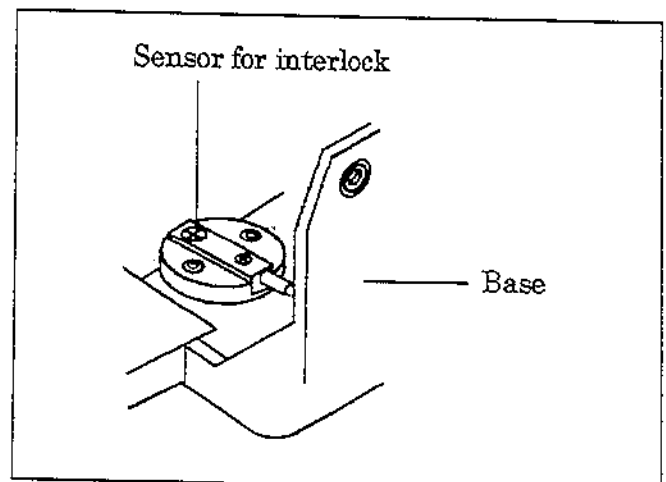
* Optional hand switch is prepared this machine. Part number of complete set : SE-49K01A

CAUTION: Be careful to operate the foot switch or hand switch when in one pedal start.

14. SAFETY INTERLOCK/SAFETY LOCK

If you raise the cloth feed table while the machine is working, the machine is completely stopped by safety interlock/safety lock for the safety.

When the safety interlock is functioned ;
Set the cloth feed table to the original position → switch off the main switch → switch on the main switch → press the left and right foot switch at the same time.



SEWING

Before starting of actual sewing, please check each threading, sewing selection dial for C/B or C/A, length of buttonhole/taper bar, with or without taper bar, stitch length, stitch width, size of cutting block.

1. START AND FINISH

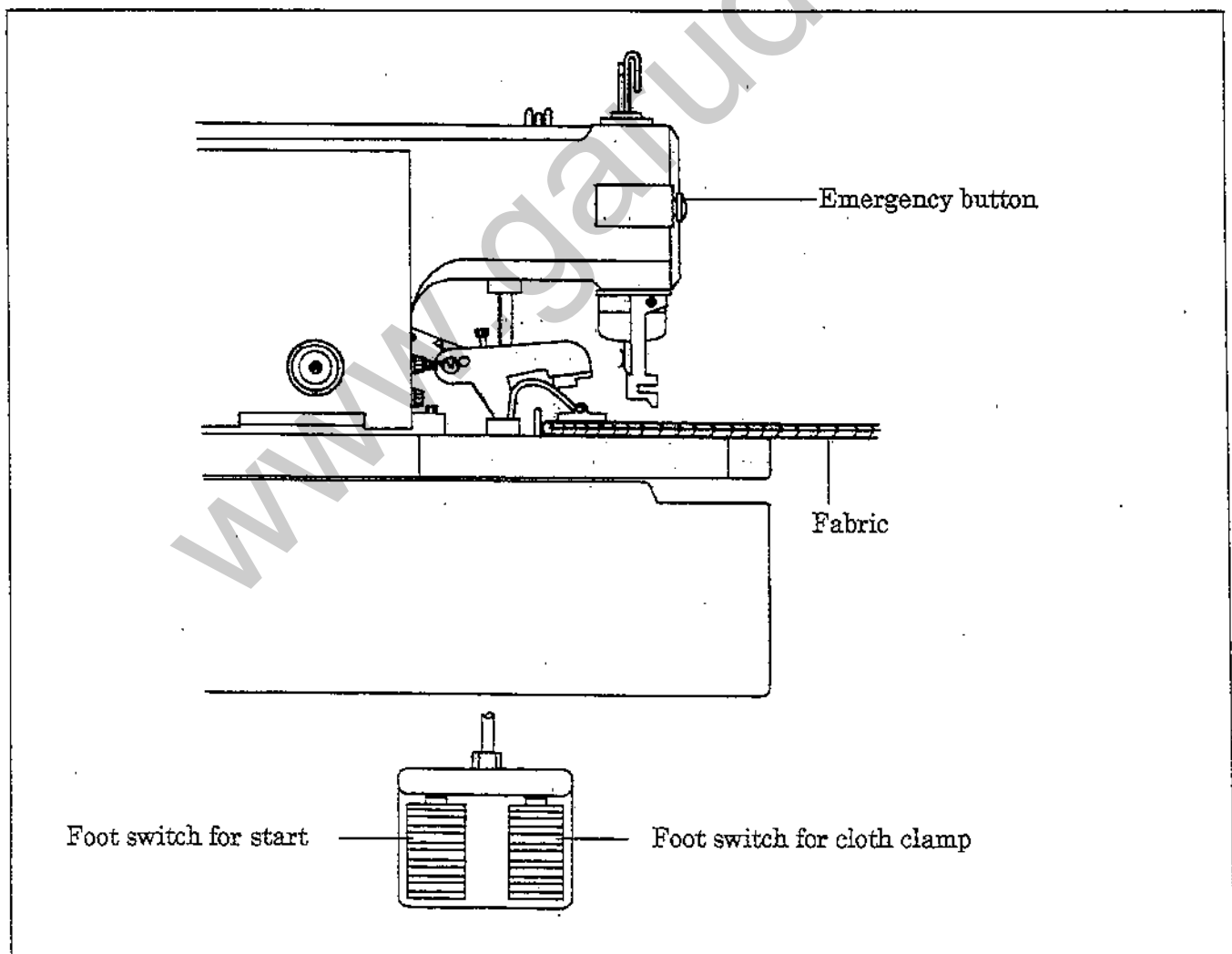
- a) Switch on the main switch.
- b) Set the material under the cloth clamp.
- c) Press the right foot switch to lock the cloth clamp. If the clamp position for the material is incorrect, press the same foot switch again. The cloth clamp opens/unlocks.

NOTE: After pressing the start/left foot switch, the cloth clamp is not opened/unlocked for safety reason even if you press the right foot switch during the machine is working.

- b) After the cloth clamp is completely locked, press the start/left foot switch. The machine will be started and stopped after working such as cutting action and sewing etc., and then cloth clamp opens/unlocks automatically. In this time, the needle thread is cut with needle thread trimmer automatically. However gimp and looper threads are not cut, pull out the material carefully and cut those threads with thread trimmer located on the feed table.

NOTE : In case of two pedal start, the machine does not start if you press the start/left foot switch before locking the cloth clamp. One pedal start: Set the material → press the left foot switch.

IMPORTANT : When in emergency while the machine is working, push the emergency button immediately. Details of it, see the page 22 for emergency button.

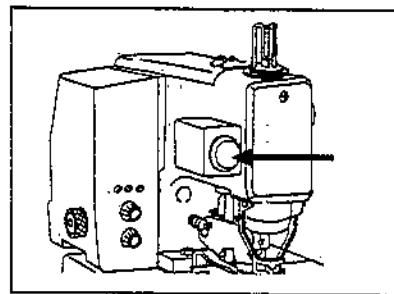


2. EMERGENCY BUTTON

When in emergency such as thread breakage, needle broken or other problem while the machine is working, push the emergency button immediately. How to recover the machine from emergency stop:

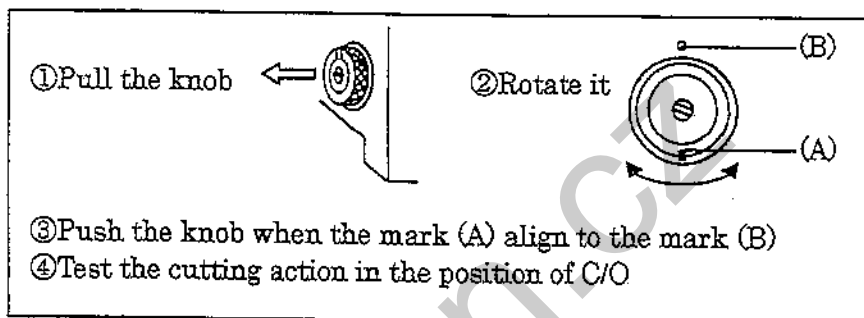
- 1) Switch off the main switch, wait about 10 sec. and switch on the main switch again.
- 2) Press the start and left foot switch at the same time.

The needle bar comes to the highest position and the feed table returns to the original/start position without sewing, and the cloth clamp opens/unlocks automatically.



In case of knife is working:

Pull the knife driving release knob, rotate its knob to counterclockwise or clockwise until the mark (A) align to the mark (B) and push the knob to the original position. Set the knife selection knob to C/O, and test the cutting action.



NOTE:

When the machine is emergency stopped, the cloth clamp does not open/unlock if you press the cloth clamp lock/unlock of right foot switch for safety reason.

3. ELECTRICITY CURRENT SHUT OFF

If the electricity current is shut off suddenly by some reasons or the switch off the main switch during the machine is working, the machine stops completely. In case of that : Connect the electricity or switch on the main switch, press the start and left foot switch at the same time. The needle bar comes to the highest position and return the cloth feed table to original position without sewing.

4. MEANING OF LED LAMP

Meaning of LED lamp, please refer under the table.

NO.	ACTION	LED LAMP			MACHINE CONDITION
		PWR	SEW	ALM	
1	Switch on the main switch	●			Normal
2	Machine is working	●	●		Normal
3	Cloth clamp doesn't lock/unlock	●		●○	Trouble
4	Needle bar/Knife doesn't work	●	●	●○	"
5	Feed table doesn't move		●	●○	"
6	Feed table doesn't stop	●○	●	●	"
7	Needle bar doesn't stop	●	●○	●	"
8	Knife doesn't stop	●○		●	"
9	Sewing doesn't normally finish			●	"
10	Trouble of foot switch	●○	●○		"
11	Emergency button is locked	●○	●○	●○	"
12	Interlock is functioned	●○	●○	●○	"
13	Machine is not original position	●	●	●	"

● → LED lamp is ON. ●○ → LED lamp is ON and OFF.

When alarm LED is on and off: Switch off the main switch → switch on the main switch → press the left and right foot switch at the same time.

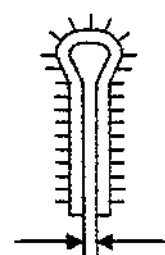
OTHER SETTING

1. SETTING FOR CUT SPACE

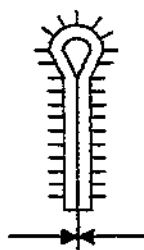
CAUTION: Switch off the main switch before setting.

Loosen the screw ②, rotate the dial ① to the direction (+) or (-).

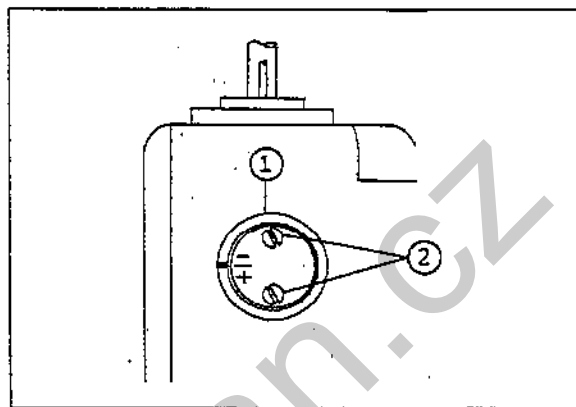
Tighten the screw ② after adjusting. Before actual sewing, please test the sewing with sample material.



Direction (+)
Wide



Direction (-)
Narrow



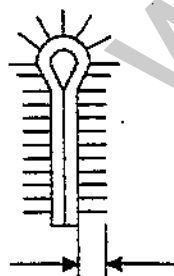
NOTE: When adjusting the position of dial ①, loopers corresponded position (timing) against loop of needle thread change because the factory pre-adjust the looper timing to 0 (+/-) position. You might readjust the looper timing for the best sewing to prevent skip/jump stitch.

2. SETTING FOR STITCH WIDTH/ZIG-ZAG

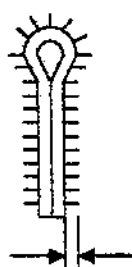
CAUTION: Switch off the main switch before setting.

Remove the face plate. Loosen the nut ① with spanner (spanner is in the accessory box), move the shaft ② up or down (highest position is 3.2mm and lowest position is 2.2mm) and tighten the nut ① at your desired position. Before actual sewing, please test the sewing with sample material.

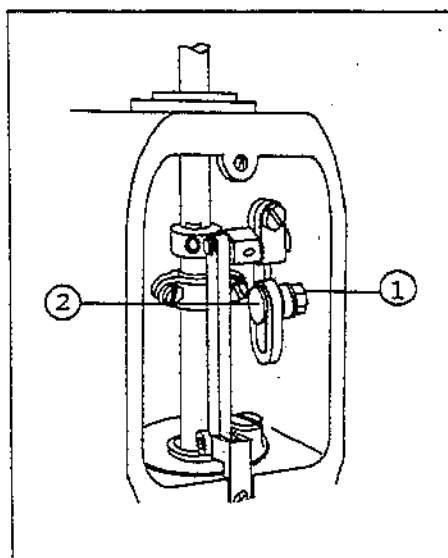
NOTE: When adjusting the position of shaft ②, looper corresponded position (timing) against the needle is changed. You might readjust the looper timing for the best sewing to prevent skip/jump stitch.



Upper position
Wide zig-zag



Lower position
Narrow zig/zag



3. SETTING FOR CUTTING PRESSURE

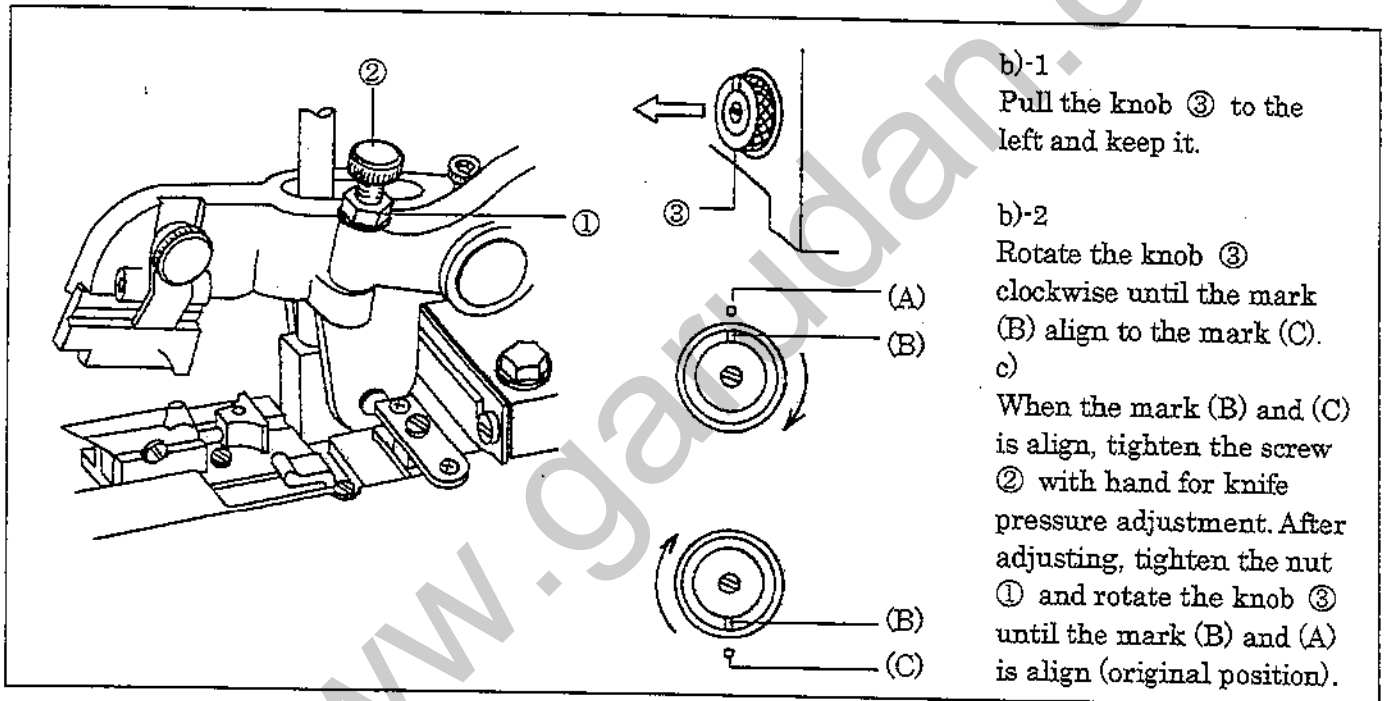
CAUTION: Switch off the main switch before setting.

- a) Loosen the nut ① and pressure adjustment screw ②.
- b) Pull the knife driving release knob ③, rotate its knob clockwise until the mark(B) align to the mark(C).
- c) Tighten the screw ② with your hand until the pressure can be felt and tighten the nut ① with spanner. Never tighten the screw ② too strong/high pressure. The cutting block pressure should adjust as low as possible to prevent any damage for the surface of cutting block or knife.

CAUTION: If the knife pressure is too strong/high pressure, surface of knife and cutting block is damaged or the safety cap will be broken to prevent the cutting block arm broken. In case of that, re-adjust the knife pressure in accordance with above a) ~ c).

- d) After adjusting c), rotate the knob ③ until the cutting block arm comes to original position.

NOTE: If you cannot achieve perfect cutting even the knife pressure is properly, file/dress up a surface of cutting block carefully. See page 24 for dressing the cutting block.



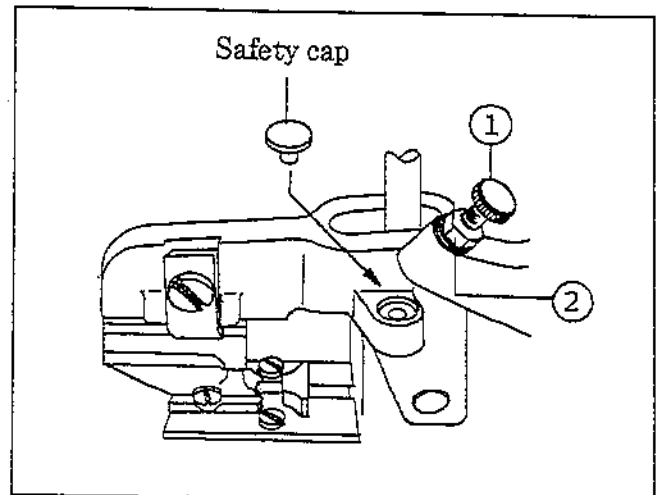
4. CUTTING BLOCK ARM SAFETY CAP

CAUTION: Switch off the main switch before replacement.

If the knife/cutting block arm pressure is too strong or the machine is using for long time, safety cap will be broken to prevent a trouble of the cutting block arm or due to worn out of safety cap.

Push down the cutting block arm with your hand and replace a new cap. Five (5) pcs. of safety cap (part No. S1-2524) are in the accessory box.

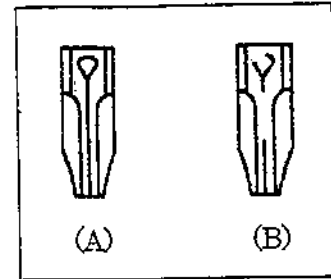
CAUTION: Never use other parts. If you use non-approved part, the cutting block arm will be broken.



5. DRESSING THE CUTTING BLOCK

CAUTION: Switch off the main switch before doing it.

When replacing a cutting block, a surface of block must dress very carefully by oilstone or paper file (#0) for perfect cutting after adjusting the cutting block pressure even if it is a new block. The figure (B) is a badly dressed block and (A) is perfect one. Good condition for the block is that a shape of knife is marked a little bit on the cutting block.

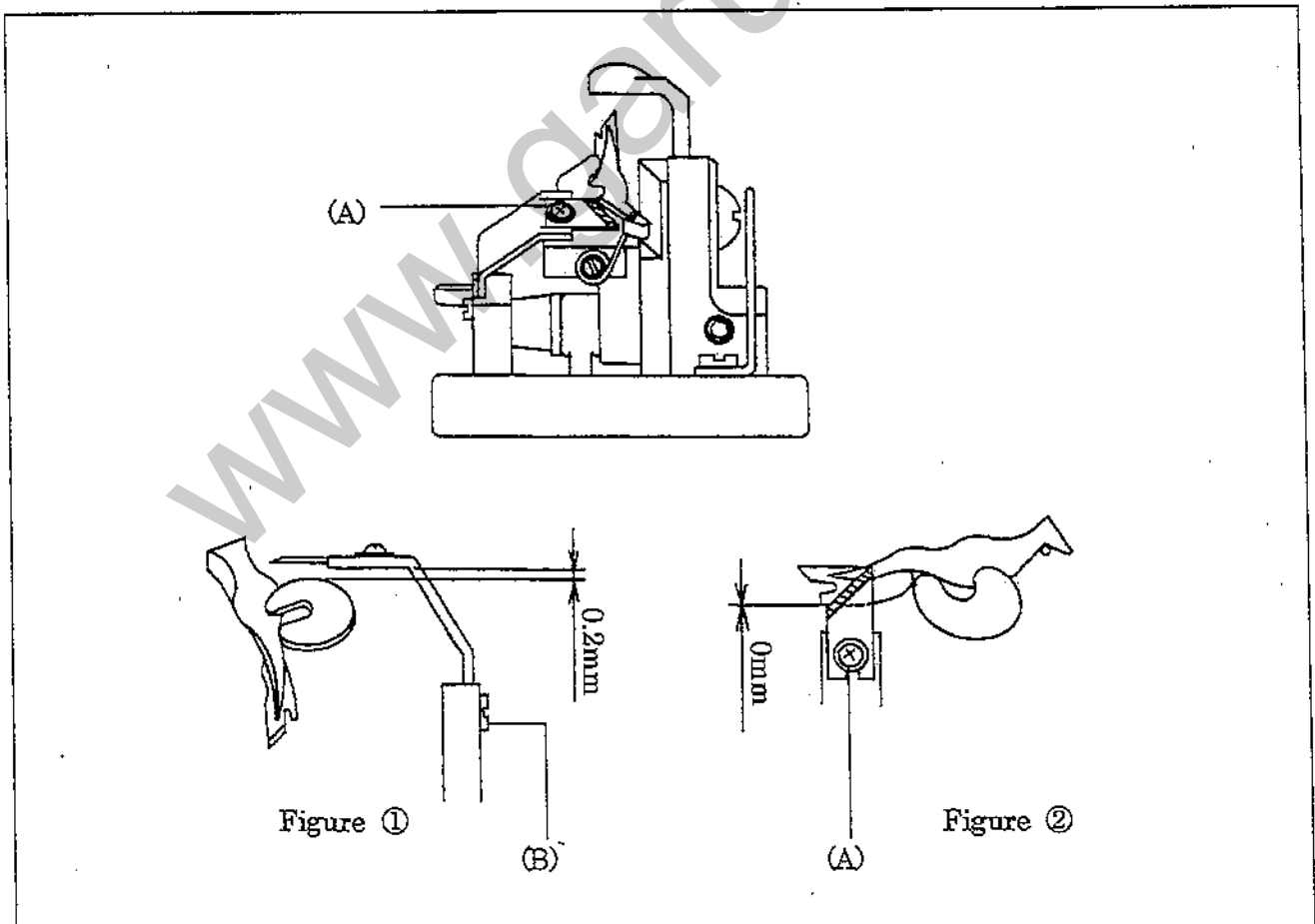


6. REPLACEMENT FOR NEEDLE THREAD TRIMMER

CAUTION: Switch off the main switch.

Replacement position is that the machine should be the start position.

- Loosen the screw (A), remove the thread trimmer and replace a new one (part No. S1-3881). The position of it is as shown in figure ②. Tighten the screw (A) after replacing. Please check the position of thread trimmer and thread trimmer fixing arm whether it does not hit to other parts by moving the thread trimmer fixing arm to left with your hand before starting the machine.
- If the thread trimmer or thread trimmer fixing arm hits to the some parts such as spreader, spreader stopper or needle plate, loosen the screw (B) and adjust the height of thread trimmer fixing arm up or down. After adjusting it, tighten the screw (B) as shown in figure ①.



TROUBLE SHOOTING

1. Cloth clamp doesn't lock/unlock

- Is the main switch switched on?
- Is the foot switch connector inserted into control box?
- Is the emergency button on?
- Is the cloth feed table raised (safety interlock is on)?
- Is the sensors broken?
- Is the sensor connecting wire broken?
- Check the sensor wire.
- Is the cloth clamp motor broken?
- Is the driver for cloth clamp broken?
- Is the CPU circuit board broken?
- Is the cloth clamp motor timing belt breakage?

2. Machine does not start or stop

- Is the main switch switched on?
- Is the main motor timing belt breakage?
- Is the main connector inserted into connector box?
- Is the emergency button on?
- Is the cloth feed table raised (safety interlock is on)?
- Check each sensors?
- Is the main motor or inverter broken?
- Is the CPU circuit board broken?
- Is the main motor broken?

3. Feed table doesn't move or stop

- Check the sensor for feed table, sensor position or lead wire of it.
- Check the driver for table motor, motor lead wire or motor.
- Is the timing belt for the feed table breakage?
- Is the motor for feed table motor broken?
- Is the CPU circuit board broken?

4. Knife doesn't work or stop

- Check the sensor for knife, sensor position or lead wire of it.
- Is the sewing selection knob set as "S/O" position?
- Is the main motor or inverter broken?
- Is the timing belt for the knife breakage?
- Is the CPU circuit board broken?

5. Sewing doesn't normally finish

- Check all sensors, position or lead wire of them.

6. Trouble of foot switch

- Check inside of switch for each foot pedals or lead wire.

7. Emergency button is locked

- a) Switch off the main switch, and switch on it again.
- b) Press both foot switches.

8. Interlock is functioned
 - a) Switch off the main switch, and switch on it again.
 - b) Press both foot switches.
9. Machine is not original position
 - Check the sensor for cloth feed table or needle bar.
10. Stitch length/pitch can't adjust
 - Is the some oils on the surface of brake pad?
 - Is the brake pressure adjustment correctly?
11. Skipped stitch or needle thread snaps frequently
 - Did all threads thread correctly?
 - Did you use correct needle system? (Needle system is "Schmetz" system 558 #90 ~ #120)
 - Is there any scratches on the surface of loopers, needle guard, spreaders or throat plate?
 - Is there any scratches on the threading hole of each threading guide (check part No. S1-0514, S1-1953A, S1-2931 or s1-2951)?
 - Is the adjustment of looper timing or needle bar height correctly?
 - Did you use high quality thread?
 - Is the adjustment of needle thread tension correctly?
12. Knife broken frequently
 - Is the adjustment of knife pressure correctly
 - Is the cutting block worn out?
 - Does the hole of knife or the hole under the knife clear?
13. Machine stops suddenly while working
 - Does some object go into between the feed table of bed or each gears?

Spare Parts List

GARUDAN[®]

*Industrial eyelet buttonhole
sewing machine*

GBH-6010-G



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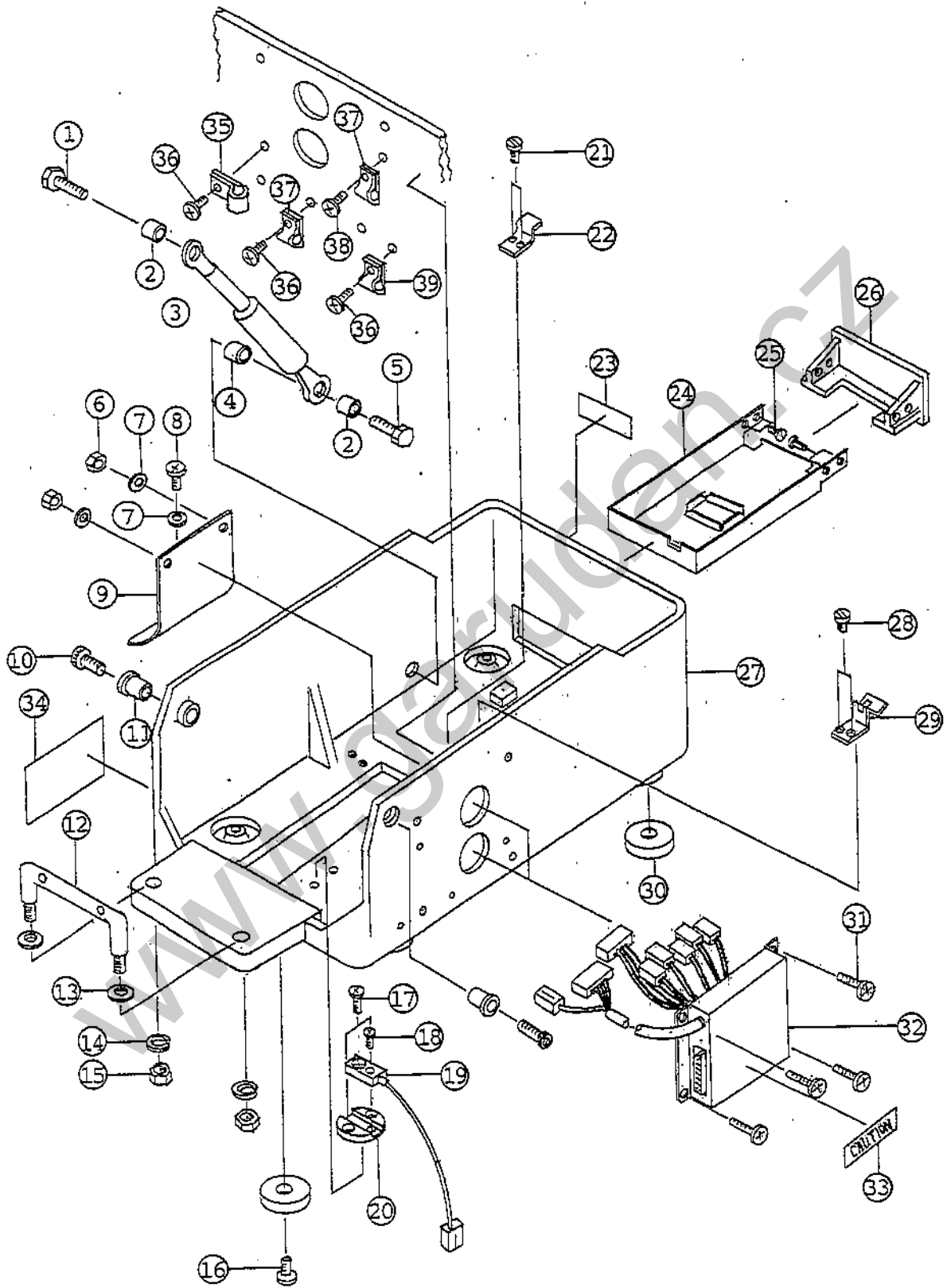
+420 516 453 496

e-mail: info@anita.cz

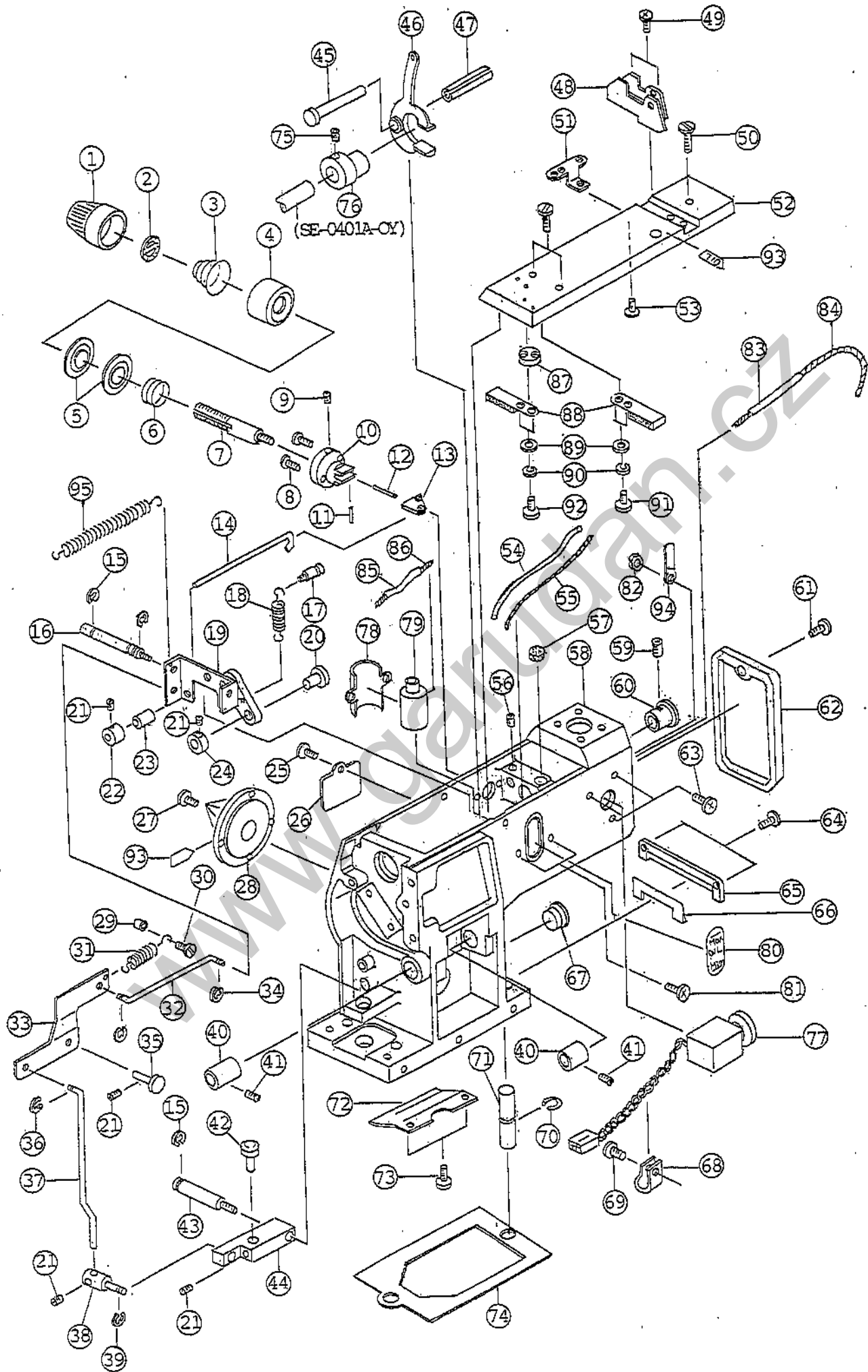
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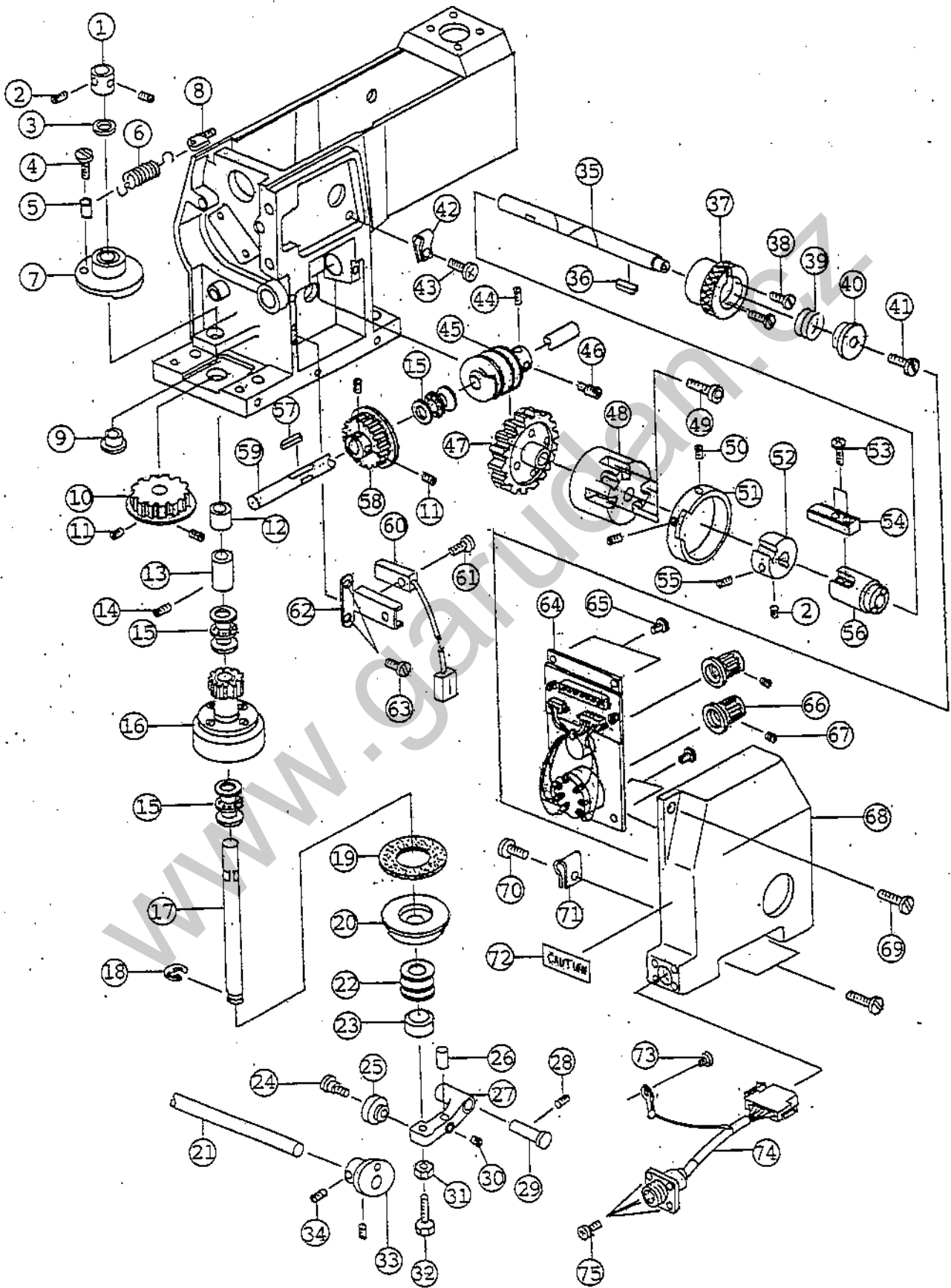
1. Base components ・ベース関係	1
2. Arm components - 1 ・アーム関係-1	2
3. Arm components - 2 ・アーム関係-2	3
4. Arm components - 3 ・アーム関係-3	4
5. Needle bar driving components ・針棒／針棒駆動関係	5
6. Feed table components - 1 ・布送りテーブル関係-1	6
7. Feed table components - 2 ・布送りテーブル関係-2	7
8. Bed/Taper-bar selecting components ・ベッド／テーパ一門切換関係	8
9. Main cam/Bed base components ・主カム／ベッドベース関係	9
10. Feed stitch components ・縫い送り関係駆動	10
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No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM6015BP	1
2	Spacer・スペーサー	SE-03101A-P	2
3	Gasdamper・ガスダンパー	SE-03801A	1
4	Spacer・スペーサー	SE-88104A-P	1
5	Screw・ネジ	SM6025BP	1
6	Nut・ナット	NM40H1S	2
7	Washer・ワッシャー	WP4005KC	3
8	Screw・ネジ	SM4008ZU	1
9	Cord cover・コードカバー	SE-03702A	1
10	Screw・ネジ	SM6025CY	2
11	Connecting bush・結合軸	S1-0312	2
12	Handle・取手	S1-0352	1
13	Washer・ワッシャー	WP6008KU	2
14	Washer・ワッシャー	WS6016-U	2
15	Nut・ナット	NM60H1U	2
16	Screw・ネジ	SM6010HU	1
17	Screw・ネジ	SM4010CY	2
18	Screw・ネジ	SM3006ZY	1
19	Senser・センサー	SE-48811A	1
20	Senser base・センサーベース	SE-48104A-P	1
21	Screw・ネジ	SM4008ZU	2
22	Clip plate・フック	SE-03504A-P	1
23	Label・注意シール	SE-97701A	1
24	Waste saucer・ゴミ受け板	SE-03502A-P	1
25	Screw・ネジ	SM3006ZY	2
26	Waste saucer cover・ゴミ受	SE-03002A	1
27	Base・ベース	SE-03001B	1
28	Screw・ネジ	SM4008ZU	2
29	Spring plate・バネ板	SE-03503A	1
30	Rubber cushion・ベースゴム	SE-03701A	5
31	Screw・ネジ	SM4012ZU	4
32	Connector cover set・接続コードセット	SE-50K01A	1
33	Label・注意シール	SZ-3171	1
34	Serial No. plate・機番板	SE-99701A	1
35	Cord clamp・コード押え	NK006N	1
36	Screw・ネジ	SM4008ZU	3
37	Cord clamp・コード押え	NK005N	2
38	Screw・ネジ	SM4006ZU	1
39	Cord clamp・コード押え	NK004N	1

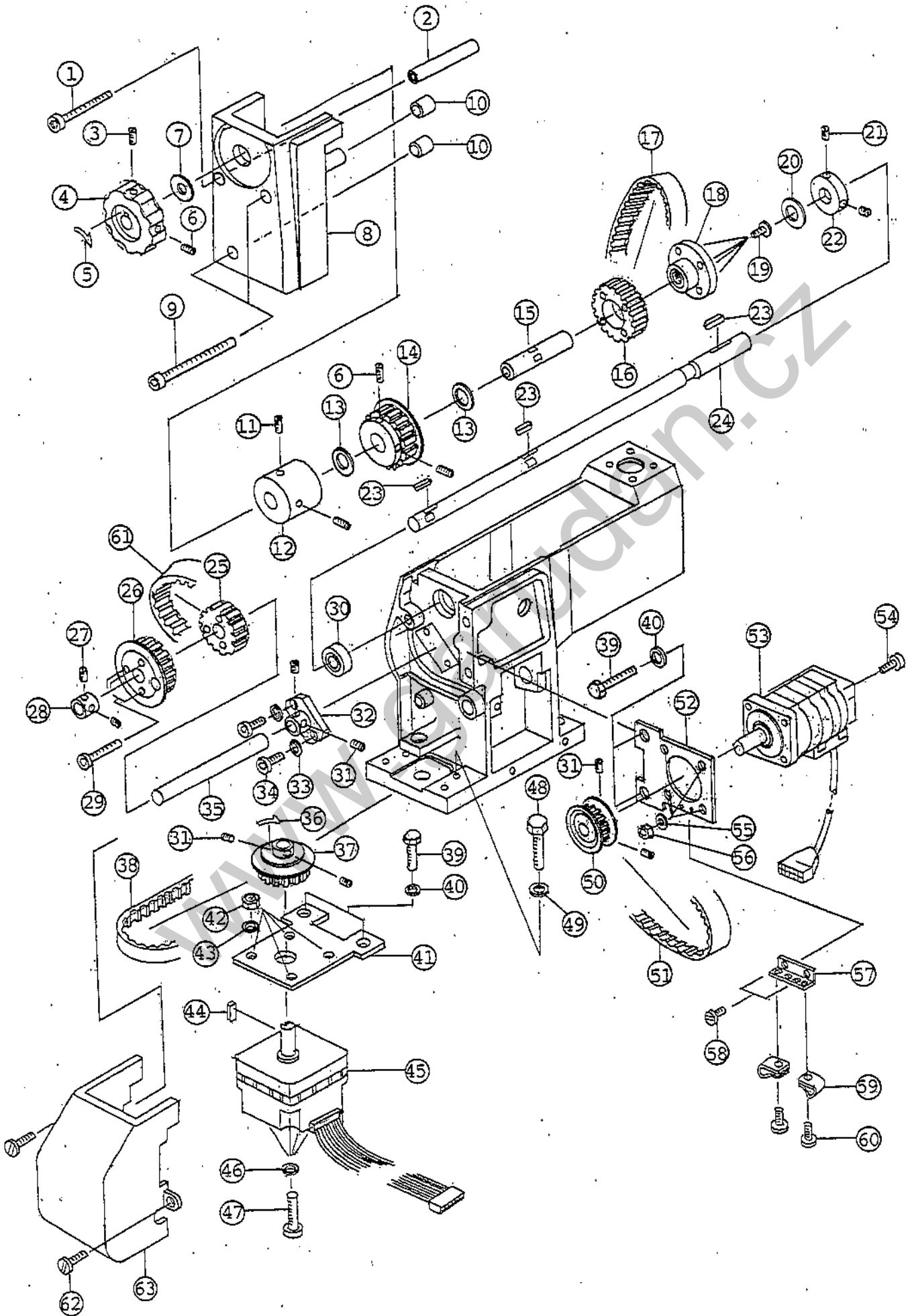


No.	Discription/名称	Part No. 部品番号	Q'ty 個数	No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Tension knob・糸調子ツマミ	S1-2972	1	53	Screw・ネジ	SM3005KP	1
2	Notched washer・回転止	S1-2956	1	54	Oil wick pipe・油芯パイプ	OP4230V	1
3	Tension spring・針糸調子ハネ	S1-2941	1	55	Oil wick・油芯	OW3225C	1
4	Adjuster seat・糸調子外筒	S1-2955	1	56	Screw・ネジ	SM6008SS	1
5	Tension discs・糸調子皿	S1-2954	1	57	Oil felt・油フェルト	S1-0171	1
6	Sub-sidiary spring・糸保持ハネ	S1-3842	1	58	Arm・アーム	SE-01001A	1
7	Adjuster post・糸調子棒	S1-2914	1	59	Screw・ネジ	SM6008SS	1
8	Screw・ネジ	SM3008HS	2	60	Bush・メタル	S1-0461	1
9	Screw・ネジ	SM4004FS	1	61	Screw・ネジ	SM4013HQ	1
10	Adjuster base・糸調子台	S1-2913	1	62	Face plate・面板	SE-01003A	1
11	Spring pin・スプリングピン	PS2006WP	1	63	Screw・ネジ	SM3010HP	3
12	Release bar・糸緩め棒	S1-2912	1	64	Screw・ネジ	SM4010HQ	2
13	Release plate・糸緩め板	S1-2952	1	65	Cover guide・切屑カバー	S1-0152	1
14	Release rod・糸緩めロッド	SE-29101A-P	1	66	Waste cover・切屑カバー	S1-0173	1
15	E-ring・Eリング	RE040-P	3	67	Cap・キャップ	S1-0172	1
16	Shaft・軸	SE-29103A-P	1	68	Cord clamp・コード押え	NK003N	1
17	Spring stud・バネ掛けネジ	HS3001P	1	69	Screw・ネジ	SM4008ZU	1
18	Spring・バネ	S1-2042	1	70	Pin ring・ピンリング	S1-0141	1
19	Plate set・糸緩め板セット	SE-29K01A	1	71	Connencting pin・結合ピン	S1-0111	1
20	Shaft roller・軸ローラー	SE-29102A-OY	1	72	Cover・カバー	S1-0153	1
21	Screw・ネジ	SM3003FS	4	73	Screw・ネジ	SM3006KP	2
22	Rod collar・軸カラー	SZ-2020	1	74	Table pad・布送りテーブルパッド	S1-0174	1
23	Rod bush・スリーブ	SE-88101A-P	1	75	Screw・ネジ	SF6006FS	1
24	Rod collar・軸カラー	TC401050A	1	76	Take-up cam・上糸天秤カム	S1-2915	1
25	Screw・ネジ	SM3008HQ	1	77	Emergency button set 緊急停止ボタンセット	SE-57A01A	1
26	Plate・窓板	S1-0151A	1	Under No. 78~95 = Machine serial No. 01042~			
27	Screw・ネジ	SM4010HQ	4	78	Oil tank holder・オイルタンク固定板	SE-37501A-U	1
28	Shaft holder・軸受台	S1-2503A	1	79	Oil tank・オイルタンク	SE-37801A	1
Under No. 29~31 = Machine serial No. 01001~01041				80	Oil seal・オイルゲージシール	SE-97707A	1
29	Collar・カラー	SP3004K	1	81	Screw・ネジ	SM3010KC	2
30	Screw・ネジ	SM3006HS	1	82	Nut・ナット	NM30H1S	2
31	Spring・バネ	S1-2042	1	83	Oil wick pipe・油芯パイプ	OP40100V	1
32	Rod・軸	SE-29105A-P	1	84	Oil wick・油芯	OW30260C	1
33	Release plate・糸緩め板	SE-29502A-P	1	85	Oil wick pipe・油芯パイプ	OP40030V	1
34	E-ring・Eリング	RE020-P	2	86	Oil wick・油芯	OW30110C	1
35	Shaft・軸	SE-29106A-PY	1	87	Brake base・ブレーキ取付台	SE-20112A-P	1
36	E-ring・Eリング	RE020-P	1	88	Brake set・ブレーキ組	SE-20K06A	2
37	Rod・軸	SE-29107A-P	1	89	Washer・座金	WP3005MU	2
38	Connecting shaft・連結軸	S1-1713	1	90	Spring washer・バネ座金	WS3007U	2
39	E-ring・Eリング	RE030-P	1	91	Screw・ネジ	SM3005CY	2
40	Bush・メタル	S1-1361	2	92	Screw・ネジ	SM3012CY	2
41	Screw・ネジ	SM6008SS	2	93	Oil mark seal・オイルマークシール	SE-97708A	2
42	Shaft・軸	SE-29108-PY	1	94	Code clip・コードクリップ	B7621-01A	2
43	Shaft・軸	SE-29112A-P	1	95	Spring・バネ	S1-2442	1
44	Release base・糸緩め台	SE-29109A-P	1				
45	Take-up shaft・天秤取付軸	S1-2916	1				
46	Thread take-up・上糸天秤	S1-2931	1				
47	Take-up shaft holder・軸メタル	S1-2917	1				
48	Take-up guide・天秤系案内	S1-2953A	1				
49	Screw・ネジ	SM3006EC	2				
50	Screw・ネジ	SM4020HQ	3				
51	Thread guide・上糸案内	S1-2951	1				
Under No. 52 = Machine serial No. 01001~01041							
52	Arm cover・上面カバー	SE-01002A	1				
Under No. 52 = Machine serial No. 01042~							
52	Arm cover・上面カバー	SE-01002B	1				



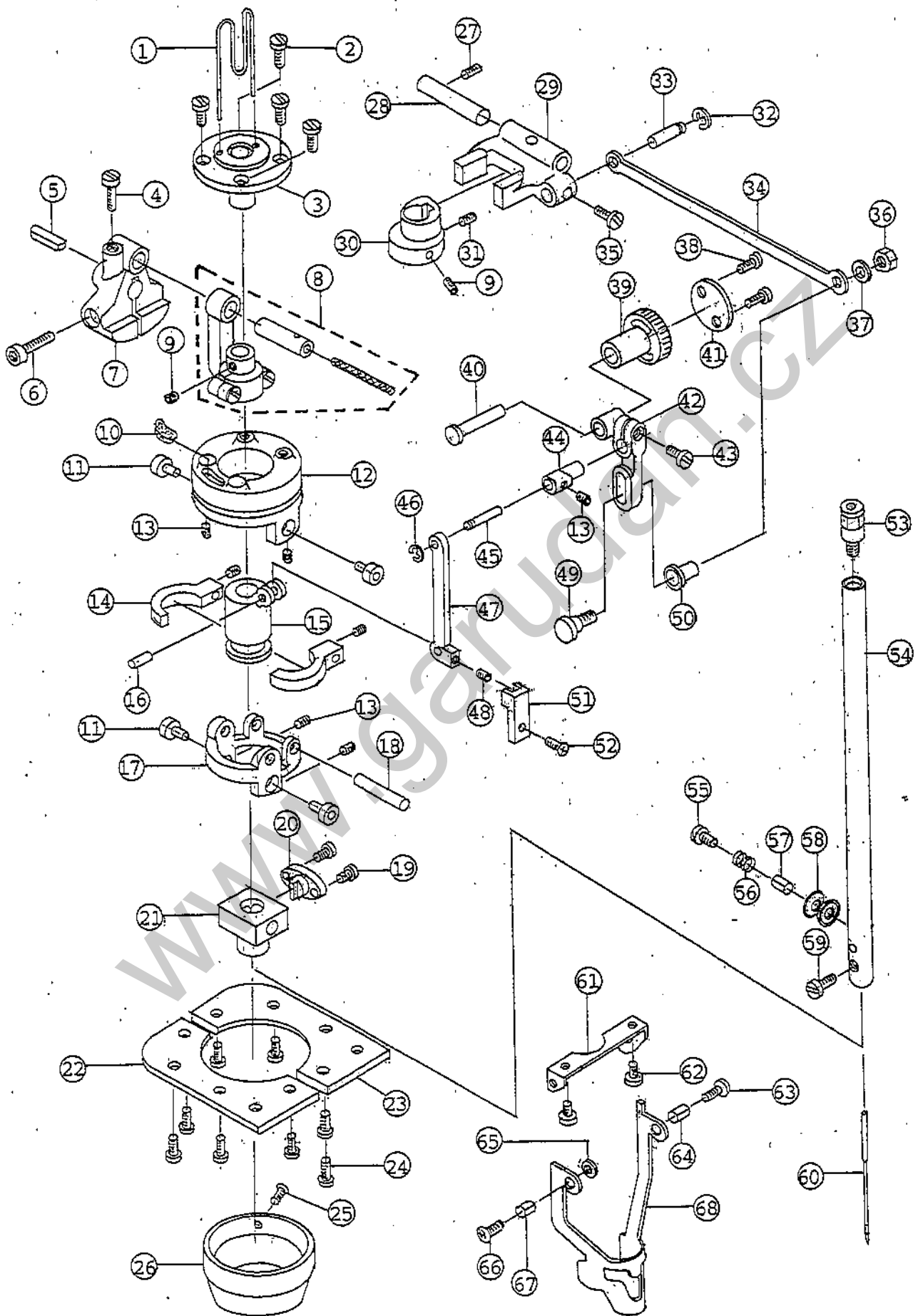
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Collar・カラー	S1-0918	1
2	Screw・ネジ	SM4004FS	3
3	Washer・ワッシャー	WP1015KP	1
4	Screw・ネジ	SM3008HS	1
5	Spacer・スペーサー	SP3040	1
6	Spring・バネ	S2-3341	1
7	Release base・系緩め台	SE-29110A-PY	1
8	Spring stud・バネ掛けネジ	HR2001P	1
9	Bush・メタル	SE-13601A	1
10	Belt wheel・ベルトホイール	SE-13K01A	1
11	Screw・ネジ	SM4008FS	4
12	Spacer・スペーサー	SE-14105A-OY	1
13	Bush・メタル	S1-1362	1
14	Screw・ネジ	SM6006SS	1
15	Thrust bearing・スラストベアリング	BS1810	3
16	Main cam brake set・主カムブレーキセット	SE-14K01A	1
17	Shaft・軸	SE-13102A-OY	1
18	E-ring・Eリング	RE080-P	1
19	Brake pad・ブレーキパッド	S1-1471	1
20	Brake base・ブレーキ台	S1-1501	1
21	Lower shaft・下軸	SE-09101A	1
22	Spring washer・スプリングワッシャー	WC1439P	3
23	Spring cap・スプリングキャップ	S1-1511	1
24	Screw・段ネジ	DN060-03	1
25	Cam roller・カムローラー	S1-1513	1
26	Stopper pin・回転止	S1-1512	1
27	Brake driving arm・作動腕	S1-1531	1
28	Screw・ネジ	SF6006FS	2
29	Shaft・軸	S1-1417	1
30	Screw・ネジ	SM4004FS	1
31	Nut・ナット	NM50H1S	1
32	Adjuster screw・調整ネジ	SM5020B8	1
33	Brake eccentric cam・ブレーキカム	SZ-1514	1
34	Screw・ネジ	SF6006FS	2
35	Knife driving shaft・メスカム軸	SE-25103A	1
36	Key・キー	KY4416R	1
37	Knife knob・メス解除ツマミ	SE-25108A-C	1
38	Screw・ネジ	SM3012HS	2
39	Knob spring・ツマミバネ	S1-2343	1
40	Knob cover・ツマミ蓋	S1-2324	1
41	Screw・ネジ	SM4010HQ	1
42	Cord clamp・コード押え	NK004N	1
43	Screw・ネジ	SM4008ZU	1
44	Screw・ネジ	SM6006FS	1
45	Worm gear・メスウォーム	S1-2311	1
46	Screw・ネジ	SM60.02S	1
47	Gear wheel・ウォームホイール	S1-2312	1
48	Connecting holder・連結受	SE-25104-OY	1
49	Screw・ネジ	SM4015CY	4
50	Screw・ネジ	SM4004FS	2
51	Positioning ring・メスカム原点体	SE-48102A-P	1
52	Connecting base・連結台	SE-25105A-P	1
53	Screw・ネジ	SM3006KP	2
54	Connecting key・連結キー	SE-25107A-OY	1
55	Screw・ネジ	SM6008FS	1
56	Connecting key base・連結キー台	SE-25106A-P	1
57	Key・キー	KY4414R	1
58	Belt wheel・ベルトホイール	SE-25K01A	1

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Shaft・メス駆動軸	SE-25102A	1
60	Senser・センサー	SE-48802A	1
61	Screw・ネジ	SM3006ZY	1
62	Senser base・センサー取付台	SE-48504A-P	1
63	Screw・ネジ	SM3006ZY	2
64	Circuit board・基盤	SE-51K02A	1
65	Screw・ネジ	SM3010KC	4
66	Knob・ツマミ	SE-51801A	2
67	Screw・ネジ	SM3003WY	2
68	Motor cover・モーターカバー	SE-01004A	1
69	Screw・ネジ	SM4010HQ	3
70	Screw・ネジ	SM4006ZU	1
71	Cord clamp・コード押え	NK010N	1
72	Label・注意文シール	SZ-3171	1
73	Screw・ネジ	SM4006ZU	1
74	Motor code・モーターコード	SE-52K01A	1
75	Screw・ネジ	SM3006EC	4



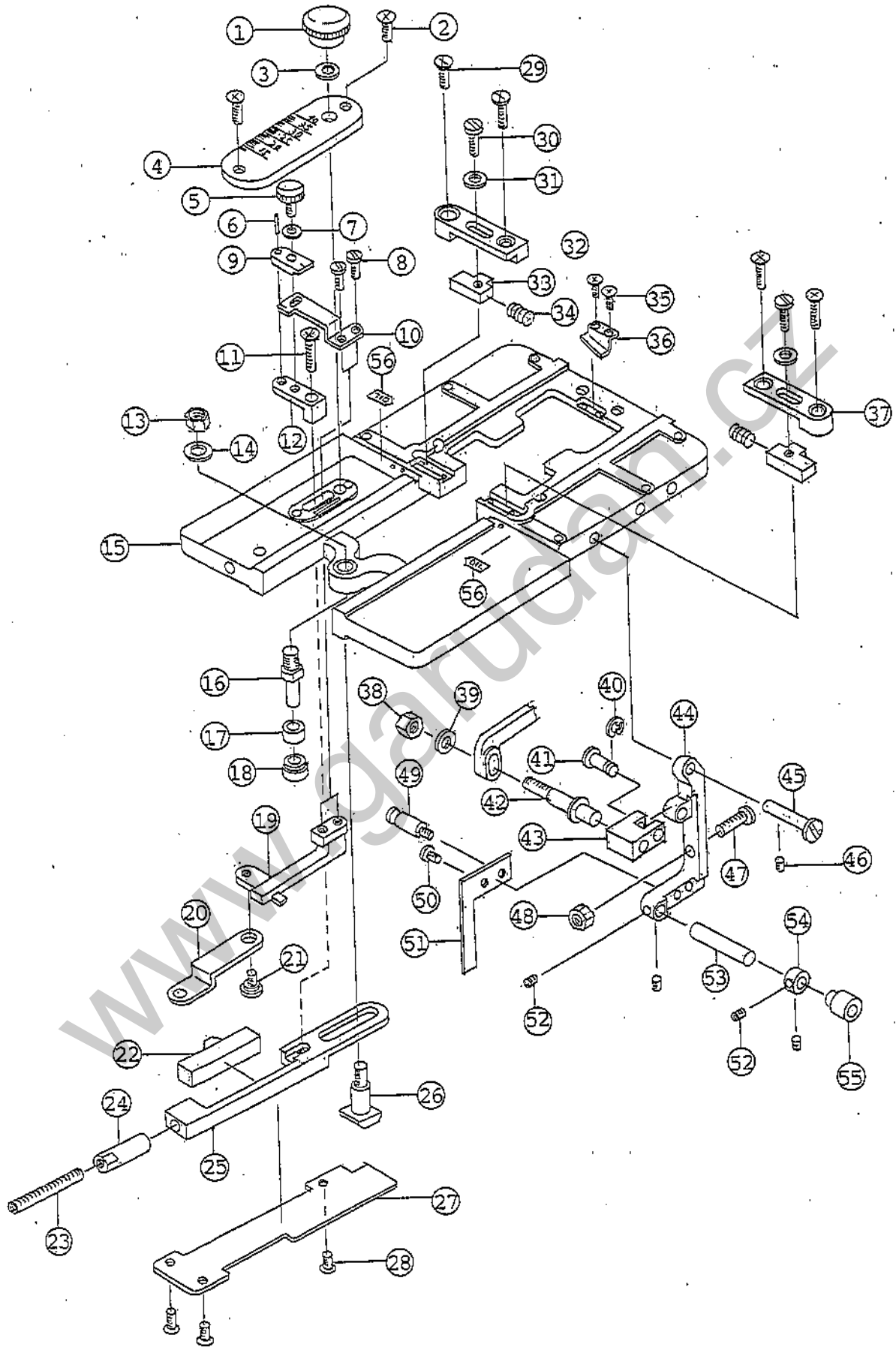
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM6075CU	1
2	Screw pipe・ネジホルダー	SE-88103A-P	1
3	Screw・ネジ	SF6006FS	1
4	Hand pully・ハンドプリー	S1-0402A	1
5	Label・回転方向シール	SE-97703A	1
6	Screw・ネジ	SM4008FS	3
7	Spacer・スペーサー	SE-20703A	1
8	Rear cover・後部カバー	SE-01006A	1
9	Screw・ネジ	SM6080CU	2
10	Spacer・スペーサー	SE-03101A-P	2
11	Screw・ネジ	SM6008FS	2
12	Shaft driving base・上軸駆動体	SE-20K01A	1
13	Spacer・スペーサー	SE-20701A	2
14	Belt wheel・ベルトホイール	SE-20K02A	1
15	Shaft・軸	SE-20K03A	1
16	Belt wheel・ベルトホイール	SE-20106A	1
17	Belt・ベルト	SE-31702A	1
18	Wheel holder・ホイール台	SE-20K04A	1
19	Screw・ネジ	SM3015CY	4
20	Spacer・スペーサー	SE-20702A	1
21	Screw・ネジ	SM3006FS	2
22	Thrust collar・スラストカラー	SE-20107A-P	1
23	Key・キー	KY4414R	3
24	Upper shaft・上軸	SE-04101A-OY	1
25	Belt wheel・ベルトホイール	SE-20109A	1
26	Belt wheel・ベルトホイール	SE-20K05A	1
27	Screw・ネジ	SM4004FS	2
28	Collar・カラー	S1-0918	1
29	Screw・ネジ	SM4015CY	4
30	Ball bearing・ボールベアリング	BB6001ZZ	1
31	Screw・ネジ	SM4006FS	6
32	Shaft base・軸受台	SE-20111A-P	1
33	Washer・ワッシャー	S1-2415A	2
34	Screw・ネジ	SM5020CY	2
35	Wheel shaft・ホイール軸	SE-20110A	1
36	Label・回転方向シール	SE-97703A	1
37	Belt wheel・ベルトホイール	SE-55K01A	1
38	Belt・ベルト	SE-31703A	1
39	Screw・ネジ	SM6015BP	2
40	Washer・ワッシャー	WP6008KU	2
41	Motor holder・モーター取付台	SE-5501A-P	1
42	Nut・ナット	NM40H1S	4
43	Washer・ワッシャー	WS400710P	4
44	Key・キー	KY4425D	1
45	Motor DC24V・モーター DC24V	SE-55801A	1
46	Washer・ワッシャー	WP401008P	4
47	Screw・ネジ	SM4050CY	4
48	Screw・ネジ	SM8030B1	4
49	Washer・ワッシャー	WP8016KP	4
50	Belt wheel・ベルトホイール	SE-52K02A	1
51	Belt・ベルト	SE-31701A	1
52	Motor holder・モーター取付台	SE-52501B-P	1
53	Main motor for 100V - 120V	SE-52802A	1
53	Main motor for 200V - 230V	SE-52801A	1
53	主モーター 100V - 120V 用	SE-52802A	1
53	主モーター 200V - 230V 用	SE-52801A	1
54	Screw・ネジ	SM4015CY	4
55	Washer・ワッシャー	WP4005KU	4

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
56	Nut・ナット	NM40H1S	4
57	Code plate・コード用取付板	SE-52502A-P	1
58	Screw・ネジ	SM4006ZU	2
59	Cord clamp・コード押え	NK004N	2
60	Screw・ネジ	SM3006ZY	2
61	Belt・ベルト	SE-31705A	1
62	Screw・ネジ	SM4010HQ	2
63	Rear Motor cover・後部モーターカバー	SE-01005A	1

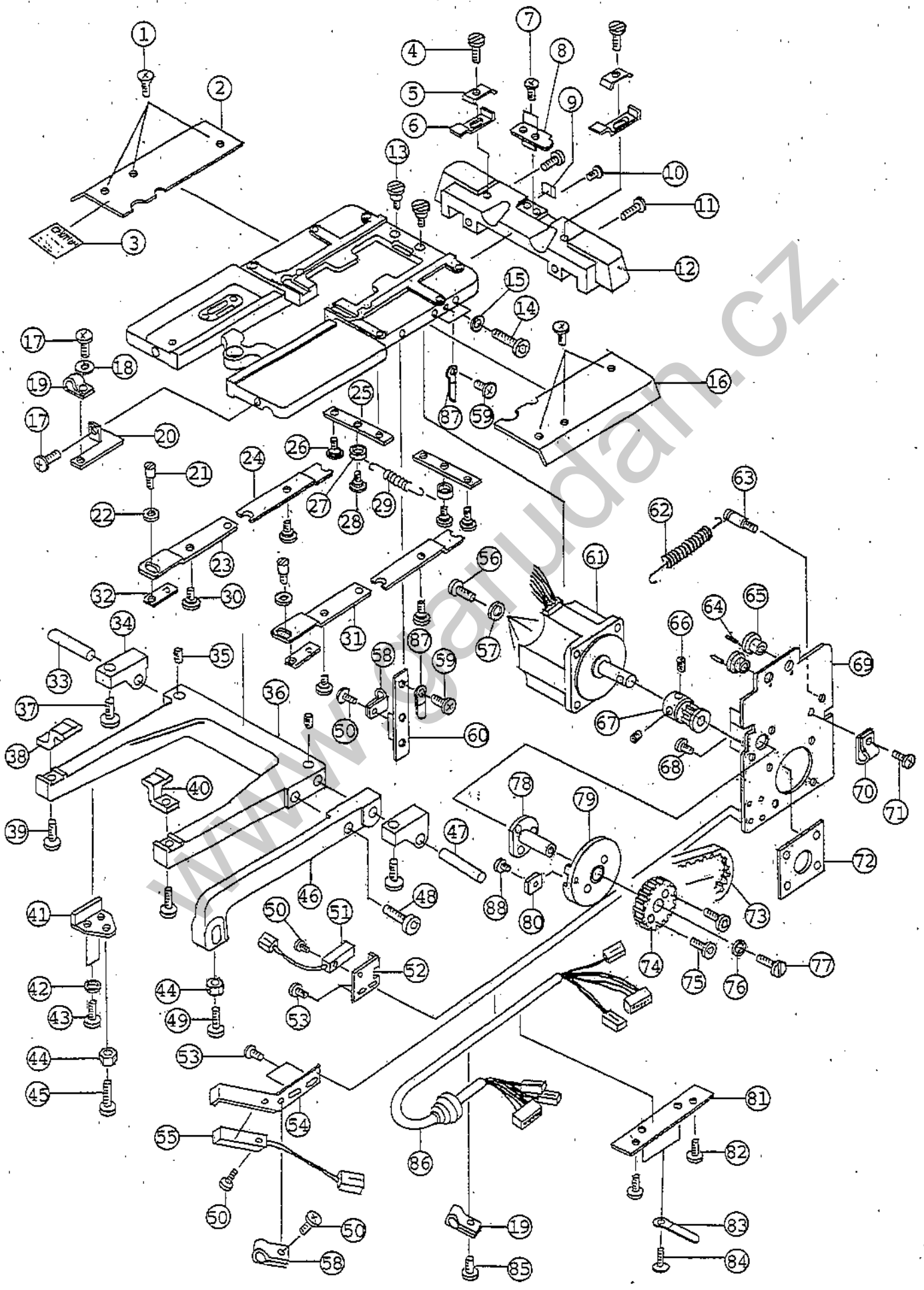


No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Safety guide・針棒ガイド	S1-0519	1
2	Screw・ネジ	SM3008HS	4
3	Gyration base set・針棒上メタル	S1-0593	1
4	Screw・ネジ	SM4013HS	1
5	Key・キー	KY4414R	1
6	Screw・ネジ	SM5025CY	1
7	Needle bar crank・針棒クランク	S1-0501	1
8	Crank rod set・クランクロッドセット	S1-0592A	1
9	Screw・ネジ	SM5005FS	2
10	Oil felt・給油フェルト	S1-0771	1
11	Ring pin・リング軸	S1-0714	4
12	Gyration base・針棒旋回台	S1-0701A	1
13	Screw・ネジ	SM3003FS	7
14	Sleeve yoke・針振りニ又	S1-0732A	2
15	Sleeve・針振りスリーブ	S1-0731	1
16	Sleeve pin・スリーブピン	S1-0711	1
17	Swing ring・針振り腕	S1-0733A	1
18	Yoke shaft・ニ又軸	S1-0713	1
19	Screw・ネジ	SM2604HS	2
20	Gyration stopper・針棒回転止	S1-0715	1
21	Lower bush・針棒下メタル	S1-0717	1
22	Left plate・左受け板	S1-0753	1
23	Right plate・右受け板	S1-0752	1
24	Screw・ネジ	SM3005HS	8
25	Screw・ネジ	SM3006RC	1
26	Cover・旋回台カバー	S1-0702A	1
27	Screw・ネジ	SM6008SS	1
28	Fork rod shaft・カムニ又軸	SZ-0611	1
29	Swing cam fork・針振りカムニ又	S1-0631	1
30	Swing cam・針振りカム	SZ-0613	1
31	Screw・ネジ	SM4006FS	1
32	E-ring・E-リング	RE040-P	1
33	Rod shaft・ロッド軸	S1-0612	1
34	Swing rod・針振りロッド	S1-0651	1
35	Screw・ネジ	SM4006HS	1
36	Nut・ナット	NM50H1S	1
37	Rod holder・ロッド受け	S1-0620	1
38	Screw・ネジ	SM3012HQ	2
39	Adjuster knob・針落調整ツマミ	SE-06101A-C	1
40	Knob shaft・針落調整軸	S1-0615	1
41	Knob plate・針落固定板	S1-0652	1
42	Swing crank・針振りクランク	S1-0632A	1
43	Screw・ネジ	SM4010HS	1
44	Eccentric collar・偏芯カラー	S1-0616	1
45	Rod shaft・ロッド軸	S1-0617	1
46	E-ring・E-リング	RE030-P	1
47	Swing rod・針振り縦ロッド	S1-0751	1
48	Screw・ネジ	SM3006FS	1
49	Screw・段ネジ	S1-0618	1
50	Screw bush・調整ブッシュ	S1-0619	1
51	Swing rod guide・縦ロッド案内	S1-0712	1
52	Screw・ネジ	SM3006KP	1
53	Thread guide・針棒系案内	S1-0514	1
54	Needle bar・針棒	S1-0515	1
55	Screw・ネジ	SM26.02Q	1
56	Tension spring・糸調子バネ	S1-0541	1
57	Disc collar・糸調整カラー	S1-0516	1
58	Tension disc・糸調子皿	S1-0552	2

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Screw・ネジ	SM30.01S	1
60	Needle・針	S1-0581	1
61	Fixing plate・取付け板	S1-0755	1
62	Screw・ネジ	SM3008HS	2
63	Screw・ネジ	SM3006EC	1
64	Guard sleeve・ガードスリーブ	SP3040	1
65	Washer・ワッシャー	WC04255	1
66	Screw・ネジ	SM3004EC	1
67	Guard sleeve・ガードスリーブ	SP3020	1
68	Finger guard・フィンガーガード	S1-0754	1

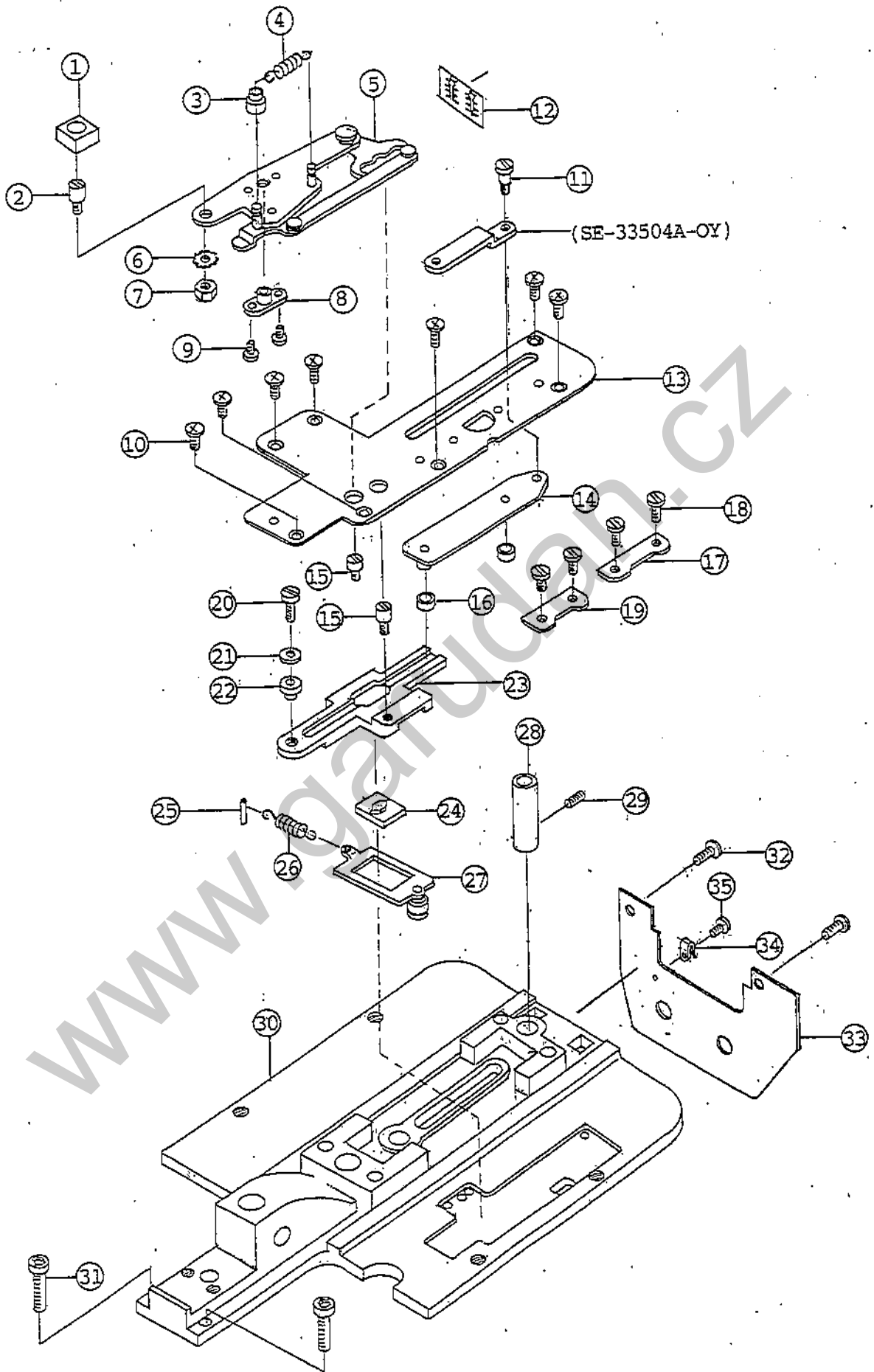


No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Fixing knob・固定ツマミ	S1-1811	1
2	Screw・ネジ	SM3010KC	2
3	Washer・ワッシャー	WC05275P	1
4	Indicator base・穴長さ目盛板	SE-33003A	1
5	Screw・ネジ	SE-33109A-C	1
6	Pin・ピン	PS1506WP	1
7	Washer・ワッシャー	WP3005KU	1
8	Screw・ネジ	SM2604HS	2
9	Indicator plate・穴長さ指針	SE-33108A-C	1
10	Indicator plate・テーパー目盛板	SE-33503A-C	1
11	Screw・ネジ	SM3014KP	1
12	Plate holder・指針取付台	SE-33110A-C	1
13	Nut・ナット	NM80H1S	1
14	Washer・ワッシャー	WP8016KP	1
15	Feed table・布送りテーブル	SE-02004A	1
16	Roller stud・ローラー軸	S1-0211	1
17	Guide roller・ガイドローラー	S1-0212	1
18	Table roller・布送りローラー	S1-0213	1
19	Indicator arm・指針取付台	SE-33302A-P	1
20	Connecting rod・連結板	SE-33504A-OY	1
21	Screw・段ネジ	DN055-01	1
22	Cam block・カムブロック	SE-18101A-OY	1
23	Adjuster screw・位置調節ネジ	SM4040FS	1
24	Adjuster nut・調節固定ナット	S1-1813	1
25	Adjuster base・穴長さ調節台	S1-1832	1
26	Adjuster screw・調節ネジ	S2-3313	1
27	Cover plate・調節台蓋	SE-33506A-N	1
28	Screw・ネジ	SM3006KP	3
29	Screw・ネジ	SM4014RC	4
30	Screw・ネジ	SM4007HS	2
31	Washer・ワッシャー	WP4005KC	2
32	R/Clamp plate base・右位置決	S2-3335	1
33	Block・位置決駒	S1-2611	2
34	Spring・バネ	S1-1442	2
35	Screw・ネジ	SM3010KP	2
36	Slider plate・レバースライダー	S1-3852	1
37	L/Clamp plate base・左位置決	S2-3336	1
38	Nut・ナット	NM60H1S	1
39	Washer・ワッシャー	WP6008KU	1
40	E-ring・E-リング	RE040-P	1
41	Link pin・リンクピン	S1-2812A	1
42	Link shaft・圧力調整軸	SE-28101A-OY	1
43	Link block・二又リンク	S1-2831A	1
44	Clamp arm・押え駆動腕	SE-28001A-P	1
45	Shaft・軸	S1-2811	1
46	Screw・ネジ	SM4006FS	1
47	Screw・ネジ	SM3015HS	1
48	Nut・ナット	NM30H1S	1
49	Spring stud・バネ掛け	HS3003P	1
50	Screw・ネジ	SM4006HS	1
51	Plate・板	SE-48502A-P	1
52	Screw・ネジ	SM3003FS	4
53	Shaft・軸	SE-28106A	1
54	Collar・カラー	SE-28107A-P	1
55	Roller・押え上下ローラー	S1-2215	1
56	Oil mark seal・オイルマークシール	SE-97708A	2

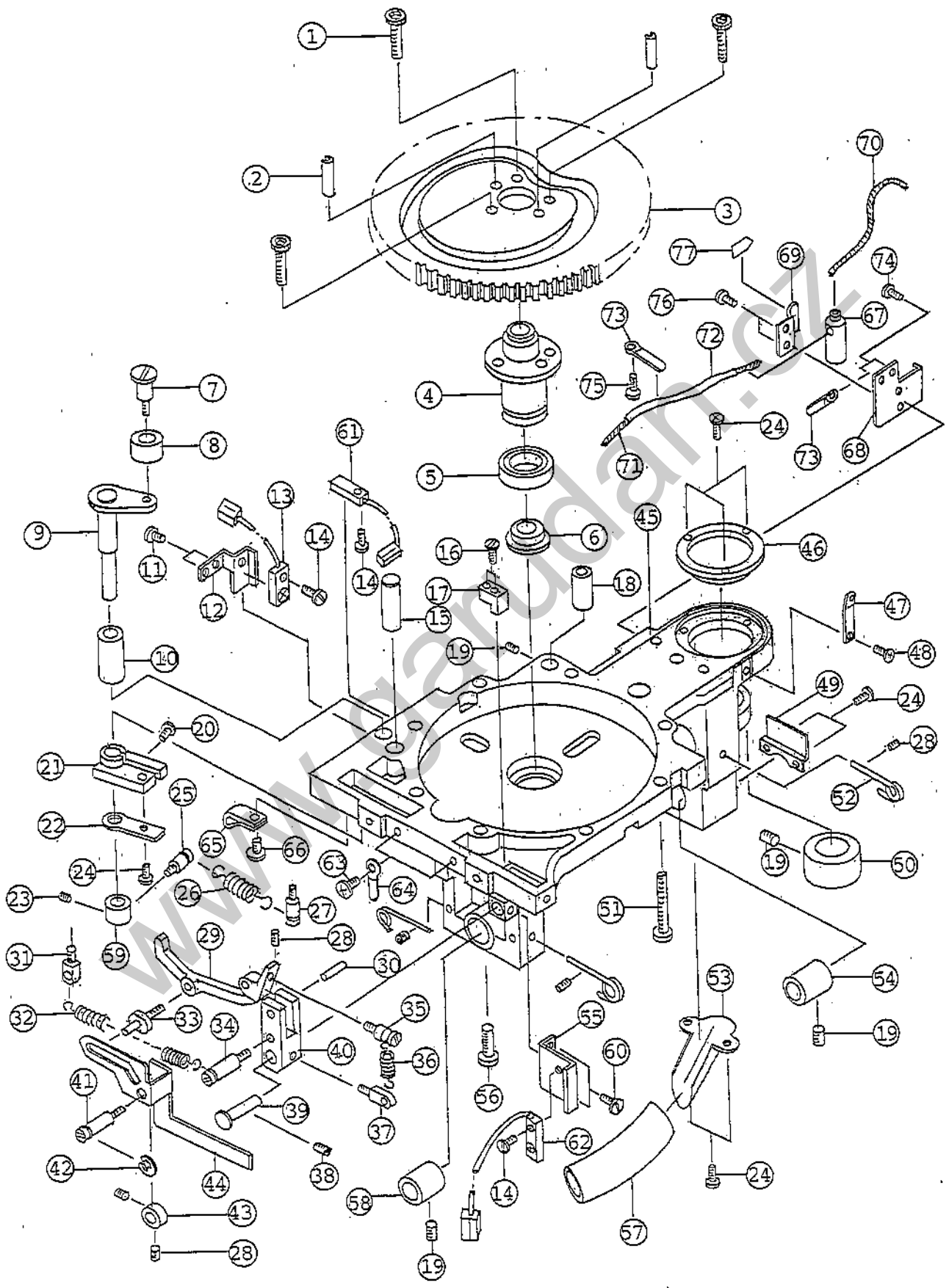


No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM4008GQ	6
2	R/Table cover・テーブル右カバー	SE-020501A	1
3	Label・注意シール	SZ-0371	1
4	Screw・段ネジ	DN040-1	2
5	Spring plate・バネ板	SE-27502A	2
6	Clamp plate holder・押え板受	SE-27501A	2
7	Screw・ネジ	SM3005KC	2
8	Cover・糸切カバー	SE-38502A-C	1
9	Thread trimmer・糸切刃	B6920-01A	1
10	Screw・ネジ	SM3006EC	1
11	Screw・ネジ	SM4015CY	2
12	Front cover・テーブル前カバー	SE-02003A	1
13	Screw・段ネジ	S1-2615	2
14	Screw・ネジ	SM5018CY	2
15	Washer・ワッシャー	S1-2415A	2
16	L/Table cover・テーブル左カバー	SE-020502A	1
17	Screw・ネジ	SM4006ZU	2
18	Washer・ワッシャー	WP4005N	1
19	Cord clamp・コード押え	NK005N	2
20	Cord plate・コード板	SE-54501A-P	1
21	Screw・ネジ	S1-2612A	2
22	Washer・ワッシャー	S1-2616	2
23	R/Pin arm set・右ピン腕セット	S1-2691	1
24	Plate arm・押え板開き腕	S1-2652	2
25	Stretch plate・押え板引張板	S1-2614	2
26	Screw・段ネジ	DN050-01	2
27	Hook sleeve・バネ掛けスリーブ	SP3040	2
28	Screw・段ネジ	SM3008TP	2
29	Spring・バネ	S1-2641	1
30	Screw・段ネジ	DN060-08	4
31	L/Pin arm set・左ピン腕セット	S1-2692	1
32	Pin nut・ピンナット	S1-2654	2
33	Shaft・軸	S1-2814	1
34	Shaft holder・作動腕取付台	S1-2802	2
35	Screw・ネジ	SM4004FS	2
36	Clamp arm base・押え作動腕	S1-2803	1
37	Screw・ネジ	SM5012HS	2
38	R/Base hook・右押え作動爪	S1-2833	1
39	Screw・ネジ	SM5014HS	2
40	L/Base hook・左押え作動爪	S1-2832	1
41	Adjuster plate・押え高さ調整板	SE-28501A-P	1
42	Washer・ワッシャー	WP4005KC	2
43	Screw・ネジ	SM4018CY	2
44	Nut・ナット	NM40H1S	2
45	Screw・ネジ	SM4020CY	1
46	Clamp arm・押え圧力腕	S1-2804	1
47	Shaft・軸	S1-2815	1
48	Screw・ネジ	SM5020CY	1
49	Screw・ネジ	SM4020B8	1
50	Screw・ネジ	SM3006ZY	5
51	Senser・センサー	SE-48807A	1
52	Senser plate・センサー取付け板	SE-48507A-P	1
53	Screw・ネジ	SM3005CY	4
54	Senser plate・センサー取付け板	SE-48508A-P	1
55	Senser・センサー	SE-48803A	1
56	Screw・ネジ	SM4015CY	4
57	Washer・ワッシャー	WP4005KC	4
58	Cord clamp・コード押え	NK004N	3

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Screw・ネジ	SM4008ZU	2
60	Cord plate・コード板	SE-54503B-P	1
61	Motor DC24V・モーター24V	SE-54801A	1
62	Spring・バネ	S1-2442	1
63	Spring stud・バネ掛け	HS3004P	1
64	Pin・ピン	PS2006WP	2
65	Holder・ホルダー	SE-28105A-P	2
66	Screw・ネジ	SM4008FS	2
67	Motor pulley・モータープリー	SE-54K01A	1
68	Screw・ネジ	SM4008HS	3
69	Fixing plate・固定板	SE-28503A-P	1
70	Code clamp・コード押え	NK004N	1
71	Screw・ネジ	SM4008ZU	1
72	Motor plate・モーター取付け板	SE-28502A-P	1
73	Belt・ベルト	SE-31704A	1
74	Belt wheel・ベルトプリー	SE-28102A	1
75	Screw・ネジ	SM5012CY	2
76	Washer・ワッシャー	WP451508P	1
77	Screw・ネジ	SM4006HS	1
78	Cam shaft・カム軸	SE-28104A-P	1
79	Clamp cam・押え駆動カム	SE-28103A-P	1
80	Stopper・ローラー止め	SE-28108A	1
81	Cord plate・コード板	SE-54502A-P	1
82	Screw・ネジ	SM3006KP	2
83	Cord clip・コードクリップ	B7621-02A	2
84	Screw・ネジ	SM3004EC	2
85	Screw・ネジ	SM3006KP	1
86	Robot corde set・ロボットコードセット	SE-54K02A	1
87	Cord clip・コードクリップ	B7621-01A	2
88	Screw・ネジ	SM3006CY	1

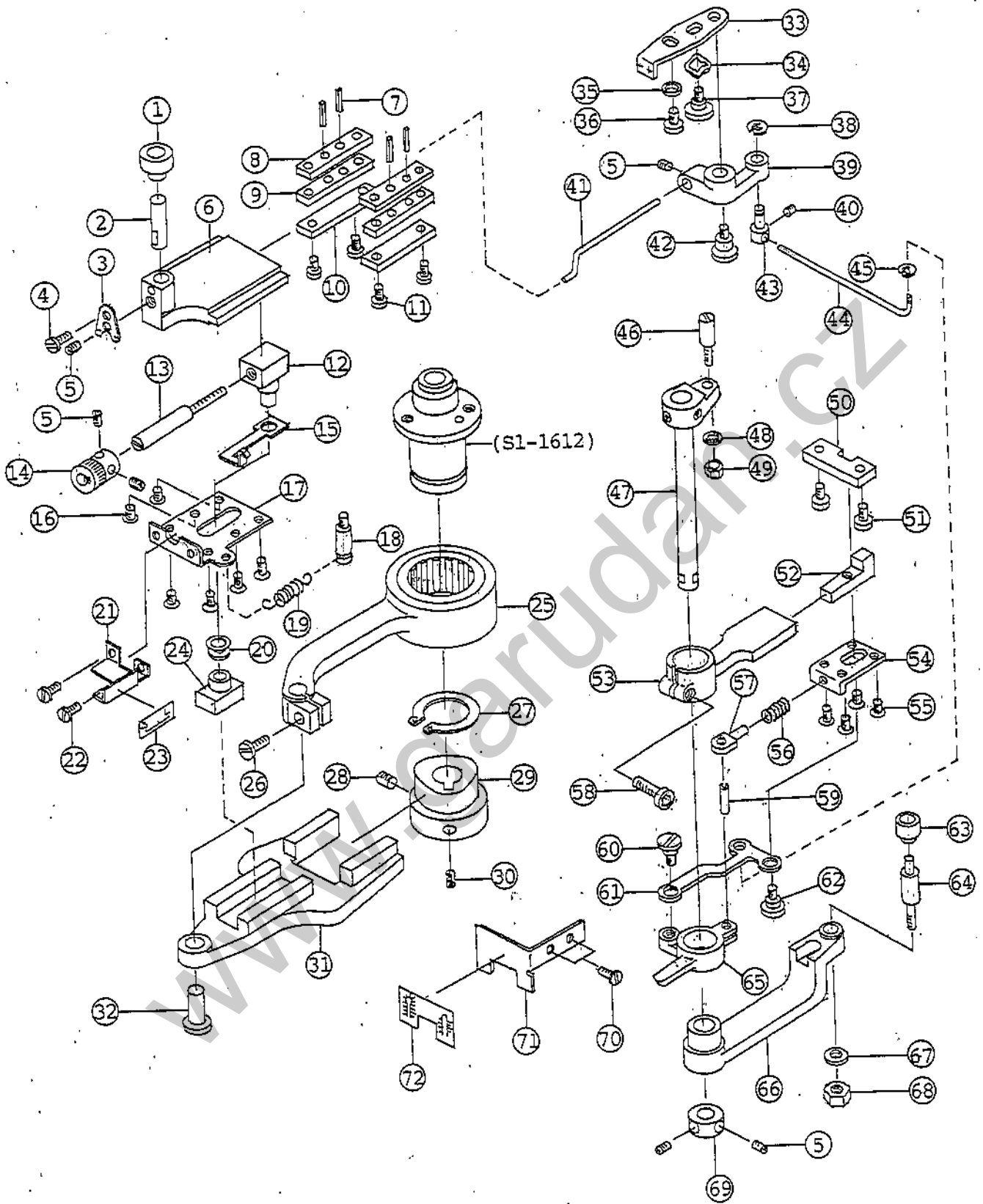


No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Block・横振り角駒	S2-3327	1
2	Screw・ネジ	S2-3328	1
3	Arm roller・テーパ-門腕ローラー	S2-3324	1
4	Spring・バネ	S2-3341	1
5	Lever set・テーパ-門腕セット	SE-33K01A	1
6	Washer・ワッシャー	WT4005U	1
7	Nut・ナット	NM40H1S	1
8	Shaft holder・軸受け	SE-33102A-PY	1
9	Screw・ネジ	SM2505KP	2
10	Screw・ネジ	SM3006KP	7
11	Screw・段ネジ	DN055-03	1
12	Label・切換シール	S2-3372	1
13	Cover plate・テーパ-門蓋	SE-33505A-P	1
14	Plate set・ローラー腕セット	SE-33K02A	1
15	Screw・ネジ	SE-33103A-OY	2
16	Changing roller・テーパ-門ローラー	SE-33105A-OY	2
17	Front plate・ローラー腕前ガイド	S2-3356	1
18	Screw・ネジ	SM3005HS	4
19	Rear plate・ローラー腕後ガイド	S2-3355	1
20	Screw・ネジ	SM3008HS	1
21	Washer・ワッシャー	WP3005KU	1
22	Bash shaft・作動板軸	SE-3107A-ON	1
23	Changing base・作動板	SE-33301A-OY	1
24	Changing cam・テーパ-門カム	S2-3318	1
25	Pin・バネ掛け	PS2008WP	1
26	Spring・バネ	S1-2344	1
27	Cam plate set・切換板セット	S2-3392	1
28	Bush・軸メタル	S1-1362	1
29	Screw・ネジ	SM6006SS	1
30	Machine bad・ベット	SE-02002A	1
31	Screw・ネジ	SM5012CY	2
32	Screw・ネジ	SM4010HQ	2
33	Bed cover・ベットカバー	SE-02503A	1
34	Code clamp・コード押え	NK005N	1
35	Screw・ネジ	SM4006ZU	1



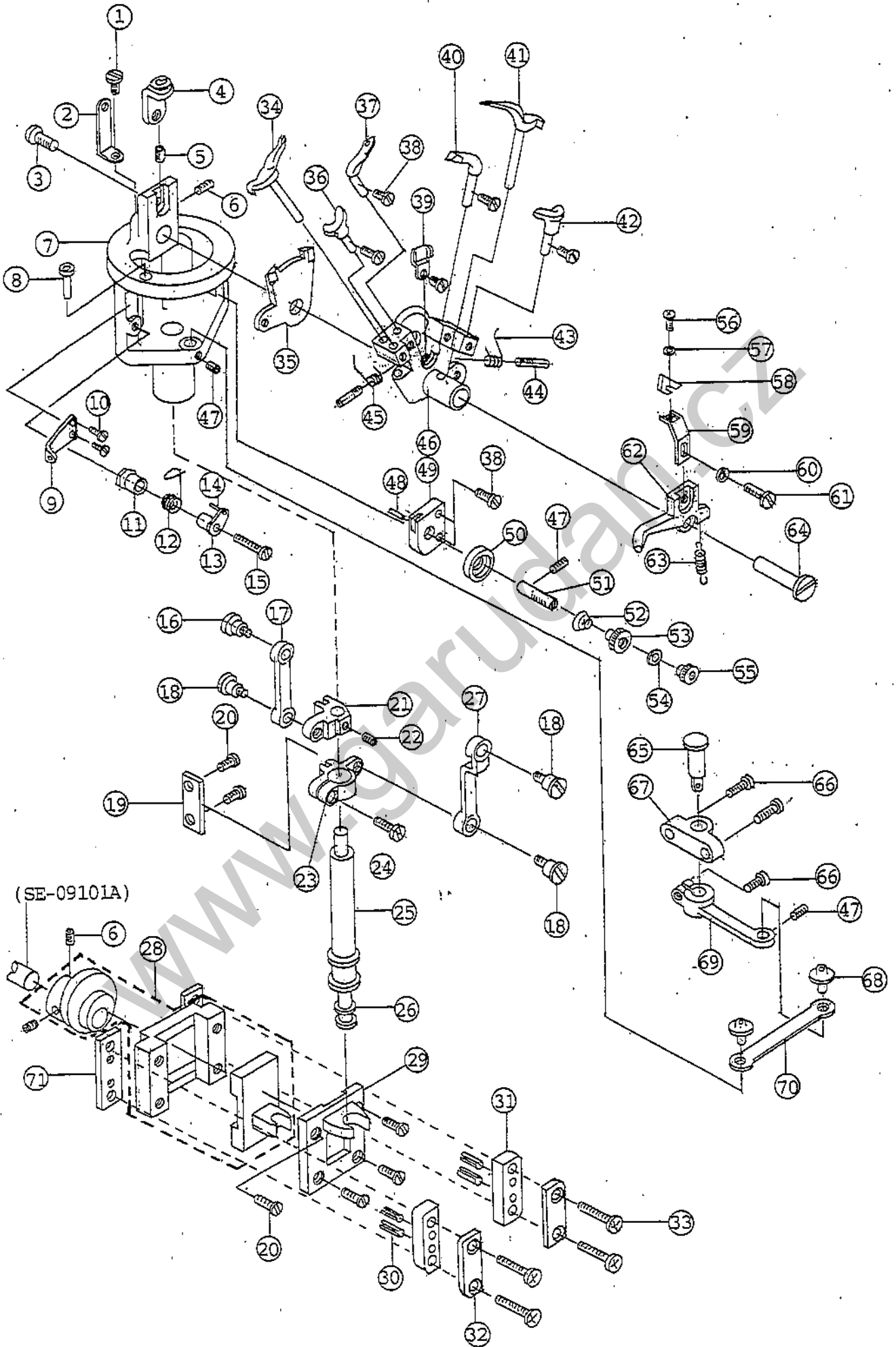
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM5012CY	2
2	Spring pin・結合ピン	PS4015WP	2
3	Main cam・主カム	S2-3311	1
4	Main cam shaft・主カム軸	S1-1612	1
5	Bearing・ベアリング	BB6805ZZ	1
6	Shaft bearing・縦軸ベアリング	BF1910ZZ	1
7	Screw・段ネジ	DN060-04	1
8	Changing roller・切換ローラー	S1-1912	1
9	Roller shaft set・ローラー軸セット	SE-22K01A	1
10	Bush・メタル	B2405-01A	1
11	Screw・ネジ	SM3006ZY	2
12	Senser plate・センサー取付け板	SE-48506A-P	1
13	Senser・センサー	SE-48804A	1
14	Screw・ネジ	SM3006ZY	3
15	Shaft・位置決め軸	SE-02101A-P	1
16	Screw・ネジ	SM4010HS	2
17	Block・緩衝ブロック	SE-14107A	1
18	Bush・メタル	S2-331B	1
19	Screw・ネジ	SM6006SS	4
20	Screw・ネジ	SM3015HS	1
21	Senser base・センサー取付台	SE-48103A-P	1
22	Senser plate・センサー板	SE-48501A-P	1
23	Screw・ネジ	SM4004FS	1
24	Screw・ネジ	SM3005HS	8
25	Spring stud・バネ掛け	HS3002P	1
26	Spring・バネ	S1-1741	1
27	Spring stud・バネ掛け	HS3006P	1
28	Spring・バネ	SM3003FS	6
29	Cam stopper・主カムストッパー	S1-1432	1
30	Pin・軸	RE40197	1
31	Spring stud・バネ掛け	HR2001P	1
32	Spring・バネ	SE-14401A	1
33	Shaft screw・軸ネジ	SE-14104A-OY	1
34	Spring stud・バネ掛け	HS3003P	1
35	Spring stud・バネ掛け	HS3007P	1
36	Spring・バネ	SE-14402A	1
37	Spring stud・バネ掛け	HR2001P	1
38	Screw・ネジ	SM6006FS	1
39	Shaft・軸	S1-1417	1
40	Stopper holder・ストッパーホルダー	SE-14103A-P	1
41	Shaft screw・軸ネジ	SE-16107A-P	1
42	E-ring・Eリング	RE030-P	1
43	Collar・カラー	SE-28107A-P	1
44	Senser plate・主カム原点板	SE-48503A-P	1
45	Bad base・ベッド取付け台	SE-02001A-OT	1
46	Upper metal・上メタル	S1-0214	1
47	Thread guide・糸案内	S1-1252	1
48	Screw・ネジ	SM3006KP	1
49	Cover・ルーパーカムカバー	S1-0252	1
50	Lower bush・下メタル	S1-1161	1
51	Screw・ネジ	SM5025CY	7
52	Thread guide・糸案内	S1-1241	3
53	Waste guide・切屑ガイド	S1-0253	1
54	Front bush・前メタル	S1-0961	1
55	Senser plate・センサー取付け板	SE-48505A-P	1
56	Screw・ネジ	SM5018CY	1
57	Guide pipe・切屑ガイドパイプ	SE-02701A	1
58	Rear bush・後メタル	S1-0962	1

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Collar・カラー	B835-02A-P	1
60	Screw・ネジ	SM3006CY	2
61	Senser・センサー	SE-48806A	1
62	Senser・センサー	SE-48805A	1
63	Screw・ネジ	SM4008ZU	2
64	Cord clip・コードクリップ	B7621-01A	2
65	Cord clamp・コード押え	NK004N	1
66	Screw・ネジ	SM4006ZU	1
Under No. 67~77 = Machine seral No. 01042~			
67	Oil tank・オイルタンク	SE-37802A	1
68	Oil tank holder・オイルタンク取付板	SE-37502A-U	1
69	Oil tank holder・オイルタンク取付板	SE-37503A-U	1
70	Oil wick・油芯	OW30215C	1
71	Oil wick・油芯	OW30235C	1
72	Oil wick pipe・油芯パイプ	OP40160V	1
73	Cord clip・コードクリップ	B7621-01A	2
74	Screw・ネジ	SM4008HS	2
75	Screw・ネジ	SM5008TK	1
76	Screw・ネジ	SM3004EC	2
77	Oil mark seal・オイルマークシール	SE-97708A	1



No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Roller・縫目減らしローラー	S1-0811	1
2	Roller shaft・ローラー軸	S1-1715	1
3	Plate・板	SE-17501A-PY	1
4	Screw・ネジ	SM2002HS	1
5	Screw・ネジ	SM4004FS	6
6	Adjuster base・調整台	S1-1702A	1
7	Pin・軸	PS2506WP	4
8	Base guide plate・取付け板	S1-1755	2
9	Base guide・調節台案内	S1-1721	2
10	Base guide cover・案内蓋	S1-1752	2
11	Screw・ネジ	SM4018KP	4
12	Adjuster blok・調節角駒	S1-1716	1
13	Adjuster screw・調節軸ネジ	SE-17101A-P	1
14	Adjuster knob・調節ツマミ	SE-171012A-CY	1
15	Indicator・調節指針	SE-17502A-C	1
16	Screw・ネジ	SM2605HS	6
17	Adjuster base plate・調節台板	SE-175024A-P	1
18	Spring stud・バネ掛け	HS3004P	1
19	Spring・バネ	S1-1741	1
20	O-ring・O-リング	ROP058	2
21	Indicator plate・調節指針板	SE-17503A-C	1
22	Screw・ネジ	SM2005HS	2
23	Indicator seal・調節指針シール	SE-97705A	1
24	Square block・二又角駒	S1-1718	1
25	Feed arm set・縫い送り腕セット	S1-1791	1
26	Screw・ネジ	SM4013HS	1
27	C-ring・C-リング	RC250EP	1
28	Screw・ネジ	SF6006FS	1
29	Feed cam・縫い送り三角カム	SZ-1720	1
30	Screw・ネジ	SM4008FS	1
31	Feed fork・縫い送り二又	S1-1704	1
32	Feed fork shaft・二又軸	S1-1719	1
33	Adjuster plate・指示板	S1-1751	1
34	Washer・波座金	WW0820-P	1
35	Washer・ワッシャー	WP4005KC	1
36	Screw・ネジ	SM4008HS	1
37	Screw・段ネジ	DN080-02	1
38	E-ring・E-リング	RE030-P	1
39	Crank・縫目減らしクランク	S1-1701	1
40	Screw・段ネジ	SM3003FS	1
41	Stitch rod・縫目減らし棒	S1-1711	1
42	Plate shaft・指示板軸	S1-1712	1
43	Connecting shaft・連結軸	S1-1713	1
44	Connecting shaft・連結軸	S1-1714	1
45	E-ring・E-リング	RE020-P	1
46	Shaft screw・軸ネジ	SE-33101A-OY	1
47	Swing arm・テーブル横振り腕セット	S1-22K01A	1
48	Washer・ワッシャー	WT4005U	1
49	Nut・ナット	NM40H1S	1
50	Fixing plate・眠り固定板	S1-2251	1
51	Screw・ネジ	SM4008HS	2
52	Changing ratch・切換爪	S1-2212	1
53	Connecting arm・鳩目連結腕	S1-2231A	1
54	Arm cover・連結腕蓋	S1-2252	1
55	Screw・ネジ	SS06.02S	4
56	Spring・バネ	S1-2241	1
57	Spring holder・切換バネ受	S1-2213	1
58	Screw・ネジ	SM5018CY	1

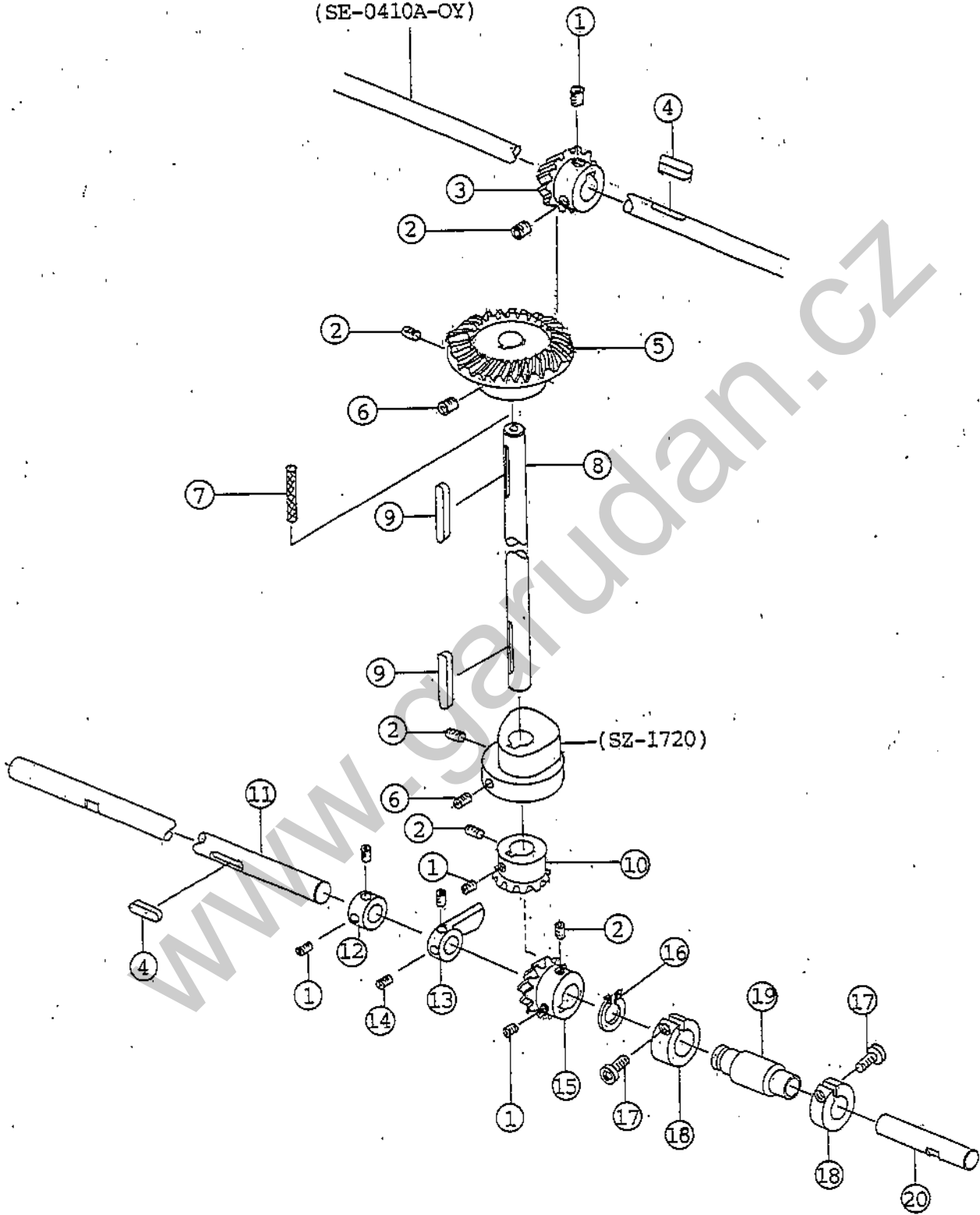
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Pin・ピン	PS2008WP	1
60	Screw・段ネジ	DN060-05	1
61	Changing link・切換リンク	S1-2253	1
62	Screw・段ネジ	DN060-06	1
63	Roller・鳩目ローラー	S1-2215	1
64	Roller shaft・ローラー軸	S1-2216	1
65	Selecting lever・切換レバー	SE-22001A-N	1
66	Driving arm・鳩目駆動腕	S1-2203	1
67	Washer・ワッシャー	WP6008KU	1
68	Nut・ナット	NM60H1S	1
69	Shaft collar・軸カラー	S1-0918	1
70	Screw・ネジ	SM3005HS	2
71	Label plate・切換ラベル板	SE-22501A-C	1
72	Label・切換シール	SE-97706A	1



No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM3005HS	1
2	Thread guide・糸案内	S1-1251	1
3	Screw・ネジ	SM4006TN	1
4	Throat plate・針板	S1-1131A	1
5	Screw・ネジ	SM2605WS	1
6	Screw・ネジ	SM5005FS	3
7	Looper gyration base・ルーパー台	S1-3801	1
8	Thread guide・糸案内	S1-1211	1
9	Thread guide・糸案内	SE-12501A-OY	1
10	Screw・ネジ	SM2005HS	2
11	Tension ring・テンションリング	S1-1271	1
12	Check spring・糸取りバネ	S1-1243	1
13	Adjuster・糸取りバネ調節器	S1-1218	1
14	Pin・ピン	PS1506WP	1
15	Screw・ネジ	SM3012HS	1
16	Screw・段ネジ	DN060-01	1
17	Driving link・作動リンク	S1-1031	1
18	Screw・段ネジ	DN060-02	3
19	Arm stopper・連結腕回転止	S1-1051	1
20	Screw・ネジ	SM3008HS	6
21	Connecting arm・連結腕	S1-1032	1
22	Screw・ネジ	SM4004FS	1
23	Connecting arm・連結腕	S1-1033	1
24	Screw・ネジ	SM4008HS	1
25	Driving shaft・ルーパー駆動軸	S1-1011	1
26	Driving shaft・作動軸	S1-1012	1
27	Driving link・駆動リンク	S1-1034	1
28	Looper cam set・ルーパーカムセット	S1-10K01A	1
29	Clamp plate・駆動二又軸	S1-1036	1
30	Pin・ガイドピン	PS2506WP	4
31	York guide・ヨークガイド	S1-1015A	2
32	Guide cover plate・ガイド蓋	S1-1053A	2
33	Screw・ネジ	SM3016KP	4
34	Left spreader・左スプレッター	S1-1132	1
35	Driving plate・スプレッター作動板	S1-1151	1
36	L/Stopper・左スプレッターストップパー	S1-1112	1
37	Left looper・左ルーパー	S1-1133	1
38	Screw・ネジ	SM2605HS	7
39	Needle guard・針受	S1-1152	1
40	Right looper・右ルーパー	S1-1134	1
41	Right spreader・右スプレッター	S1-1135	1
42	R/Stopper・右スプレッターストップパー	S1-1116	1
43	R/Spring・右スプレッタースプリング	S1-1142	1
44	Spring screw・バネ止ネジ	SM26.01S	2
45	L/Spring・左スプレッタースプリング	S1-1141	1
46	Swing base・ルーパー揺動台	S1-3802	1
47	Screw・ネジ	SM3003FS	3
48	Pin・バネ掛けピン	PS1505WP	1
49	Adjuster base・下糸調子台	S1-3811	1
50	Tension disc・下糸調子皿	S1-1255	1
51	Tension disc post・下糸調子棒	SE-12101A-OY	1
52	Tension spring・下糸調子バネ	S1-1242	1
53	Pressure screw・下糸調子ツマミ	S1-1217	1
54	Washer・ワッシャー	WC04255	1
55	Fixing knob・固定ツマミ	SE-12102A-C	1
56	Screw・ネジ	SM2002NQ	1
57	Washer・ワッシャー	WP2003KC	1
58	Needle thread blade・糸切刃	S1-3881	1

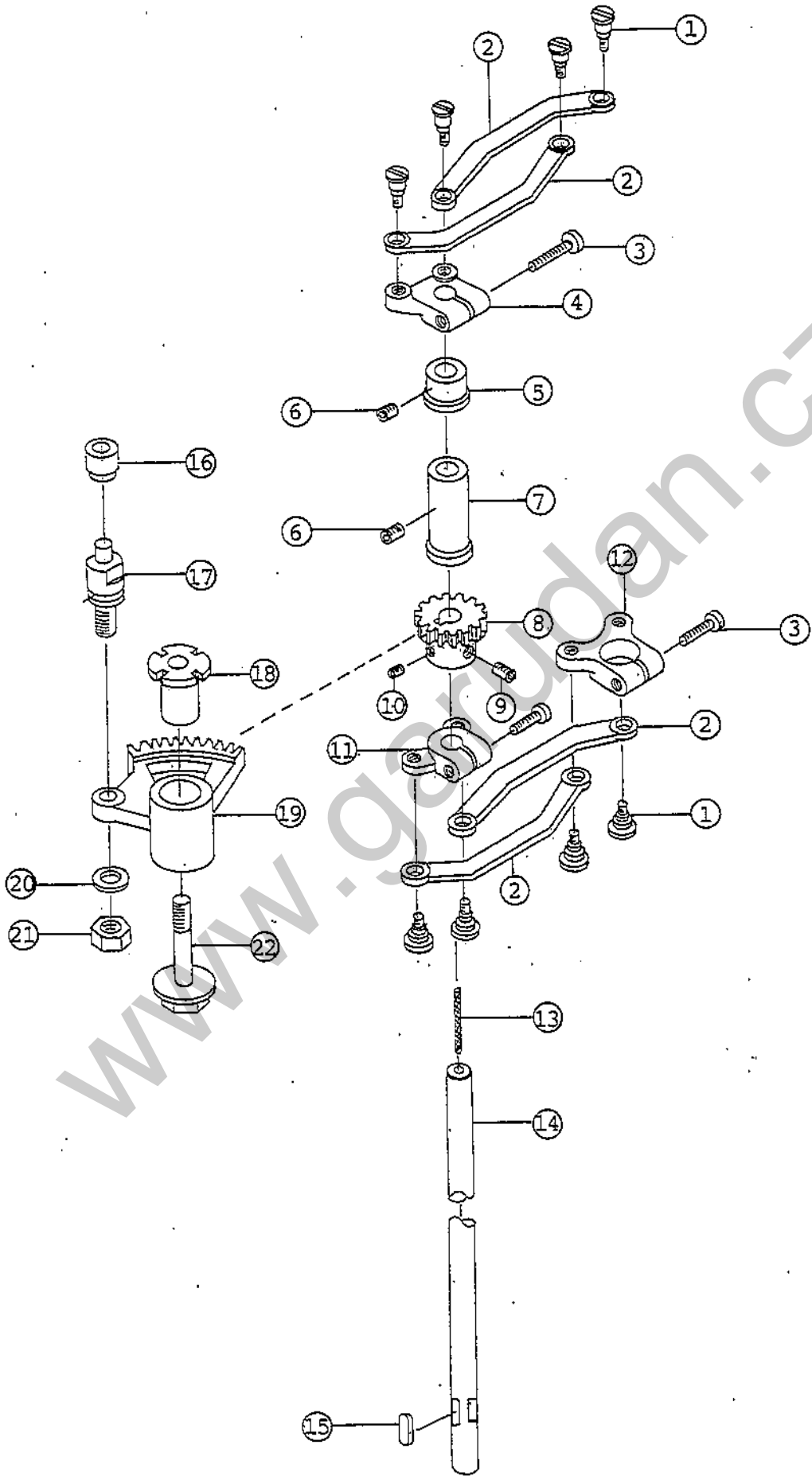
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
59	Blade arm・糸切刃取付け台	S1-3851	1
60	Washer・ワッシャー	WP3005KU	1
61	Screw・ネジ	SM3005HS	1
62	Blade arm base・針糸切レバー	S1-3831	1
63	Spring・バネ	S1-3841	1
64	Swing base shaft・揺動台軸	S1-1117	1
65	Thread shaft・下糸案内腕軸	S1-1212	1
66	Screw・ネジ	SM4010HS	3
67	Guide base・下糸案内台	S1-1201	1
68	Guide pin・下糸案内ピン	S1-1213	2
69	Guide arm・下糸案内腕	S1-1231	1
70	Guide link・下糸案内リンク	S1-1253	1
71	Guide plate・ガイド取付板	S1-1052	2

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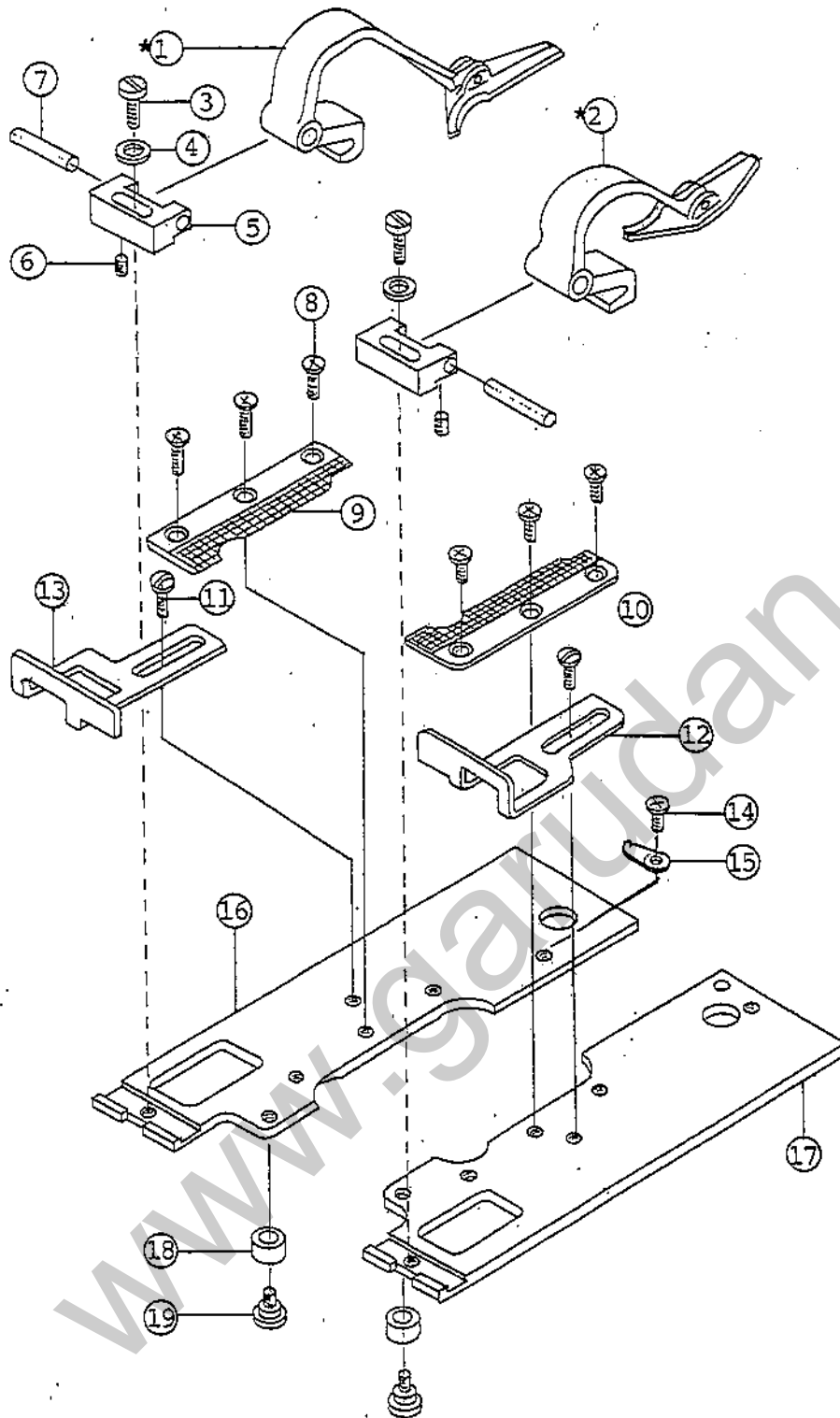
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・ネジ	SM4004FS	5
2	Screw・ネジ	SM6006FS	5
3	Bevel gear・上軸傘歯車	S1-0911	1
4	Key・キー	KY4414R	2
5	Large bevel gear・縦軸傘歯車	S1-0912	1
6	Screw・ネジ	SF4008FS	2
7	Oil wick・縦軸油芯	OW3040C	1
8	Vertical shaft・縦軸	S1-0913	1
9	Key・キー	KY4430R	2
10	Bevel gear・縦軸下傘歯車	S1-0914	1
11	Lower shaft・下軸	SE-09101A	1
12	Thrust collar・スラスト受け	S1-0918	1
13	Senser plate・内振停止体	SE-48101A-P	1
14	Screw・ネジ	SM4008FS	2
15	Bevel gear・下軸傘歯車	S1-0915	1
16	C-ring・C-リング	RC120EP	1
17	Screw・ネジ	SM4012CY	2
18	Connecting ring・継手締付リング	S1-0920A	2
19	Connecting rod・タイミング継手	S1-0919A	1
20	Connecting shaft・駆動カム軸	S1-0916B	1

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No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Screw・段ネジ	DN065-01	8
2	Parallel link・平行リンク	S1-0832	4
3	Screw・ネジ	SM4016HS	3
4	Parallel link arm・平行リンク腕	S1-0833	1
5	Upper bush・軸上メタル	S1-0861	1
6	Screw・ネジ	SM6006SS	2
7	Lower bush・軸下メタル	S1-0862	1
8	Gear・旋回軸歯車	S1-0816	1
9	Screw・ネジ	SM6006FS	1
10	Screw・ネジ	SM4004FS	1
11	Parallel link arm・平行リンク腕	S1-0834	1
12	Parallel link arm・平行リンク腕	S1-0835	1
13	Oil wick・軸油芯	OW3013C	1
14	Gyration shaft・旋回軸	S1-0815	1
15	Key・キー	KY4414R	1
16	Gyration roller・旋回ローラー	S1-0811	1
17	Roller stud・旋回ローラー軸	S1-0812	1
18	Eccentric bush・偏芯メタル	S1-0813	1
19	Sector gear・扇型歯車	S1-0831	1
20	Washer・ワッシャー	WP8016KP	1
21	Nut・ナット	NM80H1S	1
22	Screw・ネジ	S1-0814	1

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* ① * ②



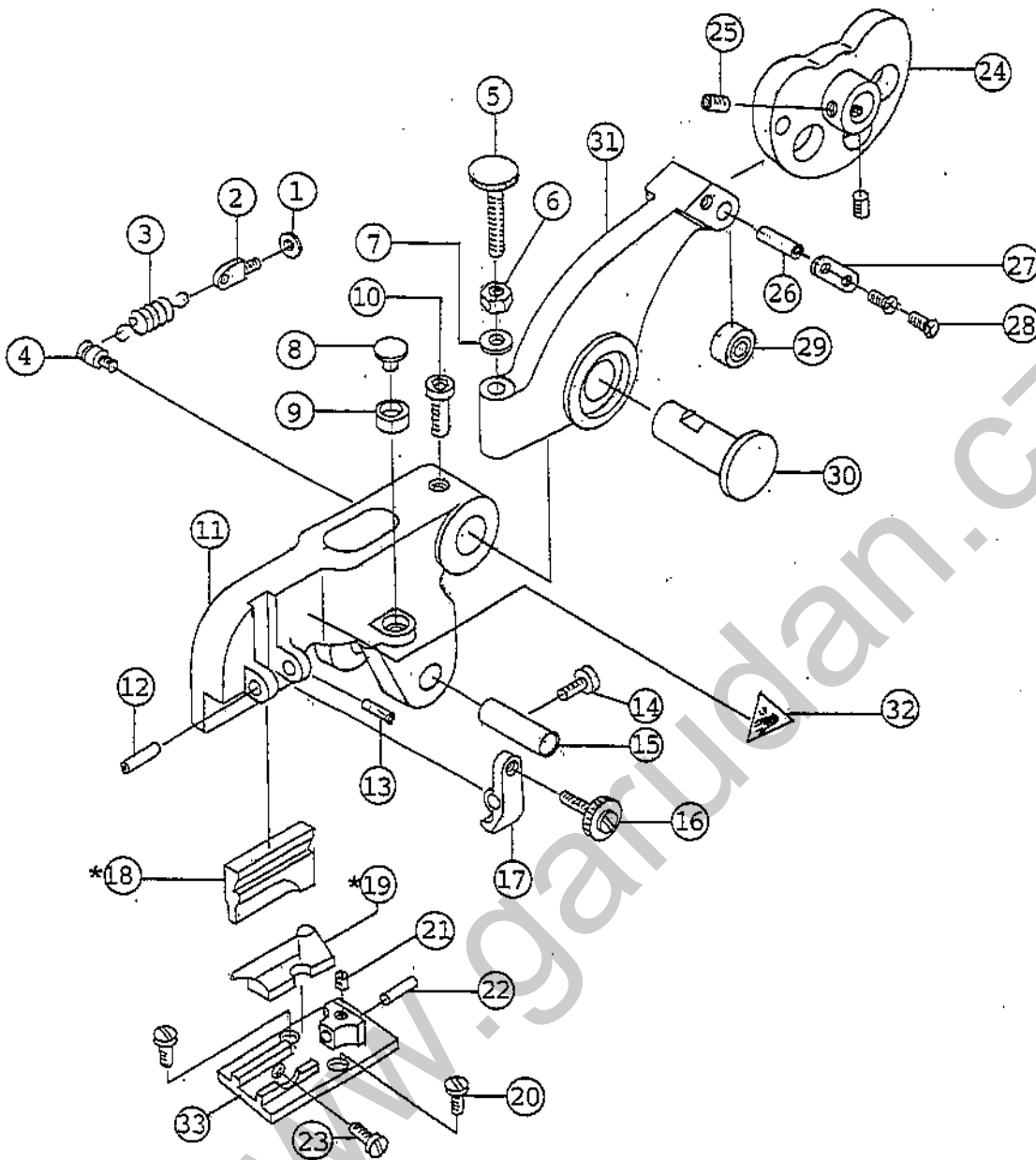
Flat type フラットタイプ	Right cloth clamp set ・右押え金セット	S1-2791
	Left cloth clamp set ・左押え金セット	S1-2792

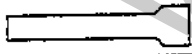
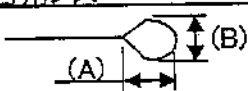
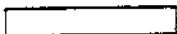



Wedge type クサビタイプ	Right cloth clamp set ・右押え金セット	SZ-2791
	Left cloth clamp set ・左押え金セット	SZ-2792

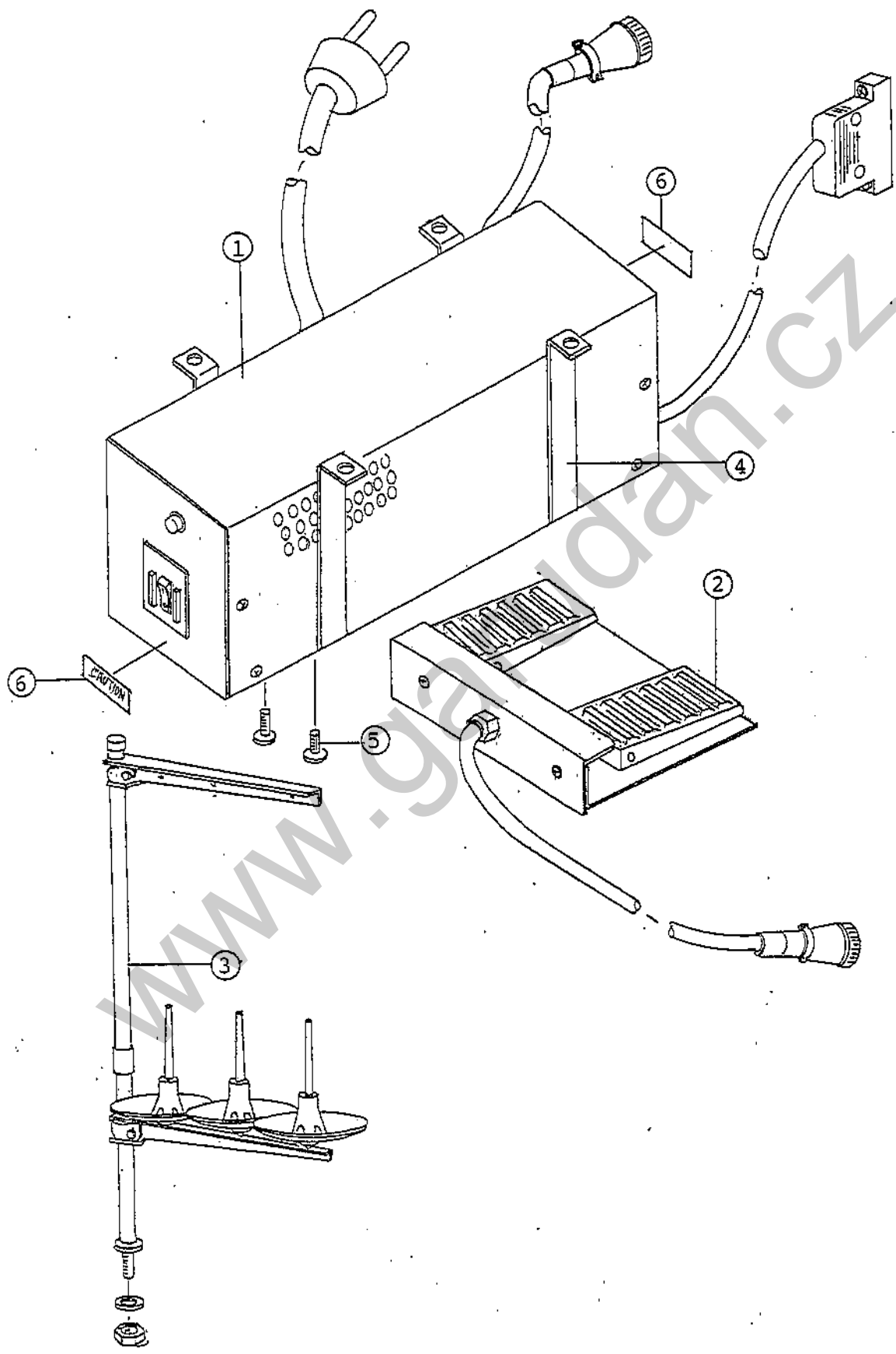
No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	R/Cloth clamp set・右押えセット	S1-2791	1
1	R/Cloth clamp set・右押えセット	SZ-2791	1
2	R/Cloth clamp set・左押えセット	S1-2792	1
2	R/Cloth clamp set・左押えセット	SZ-2792	1
3	Screw・ネジ	SM4013HS	2
4	Washer・ワッシャー	WP4005KC	2
5	Clamp arm holder・取付台	S1-2735	2
6	Screw・ネジ	SM3003FS	2
7	Arm shaft・押え足取付軸	S1-2711	2
8	Screw・ネジ	SM3005KC	6
9	R/Lower clamp・右押え受板	S1-2751	1
10	L/Lower clamp・左押え受板	S1-2752	1
11	Screw・ネジ	SM30.02S	2
12	Left gauge・左定規	S1-2757	1
13	Right gauge・右定規	S1-2756	1
14	Screw・ネジ	SM3004EC	1
15	Thread holder plate・糸押え板	S1-2755	1
16	R/Cloth clamp base・右押え板	SE-27403A	1
17	L/Cloth clamp base・左押え板	SE-27504A	1
18	Clam base roller・開きローラー	S1-2712	2
19	Screw・段ネジ	DN050-02	2

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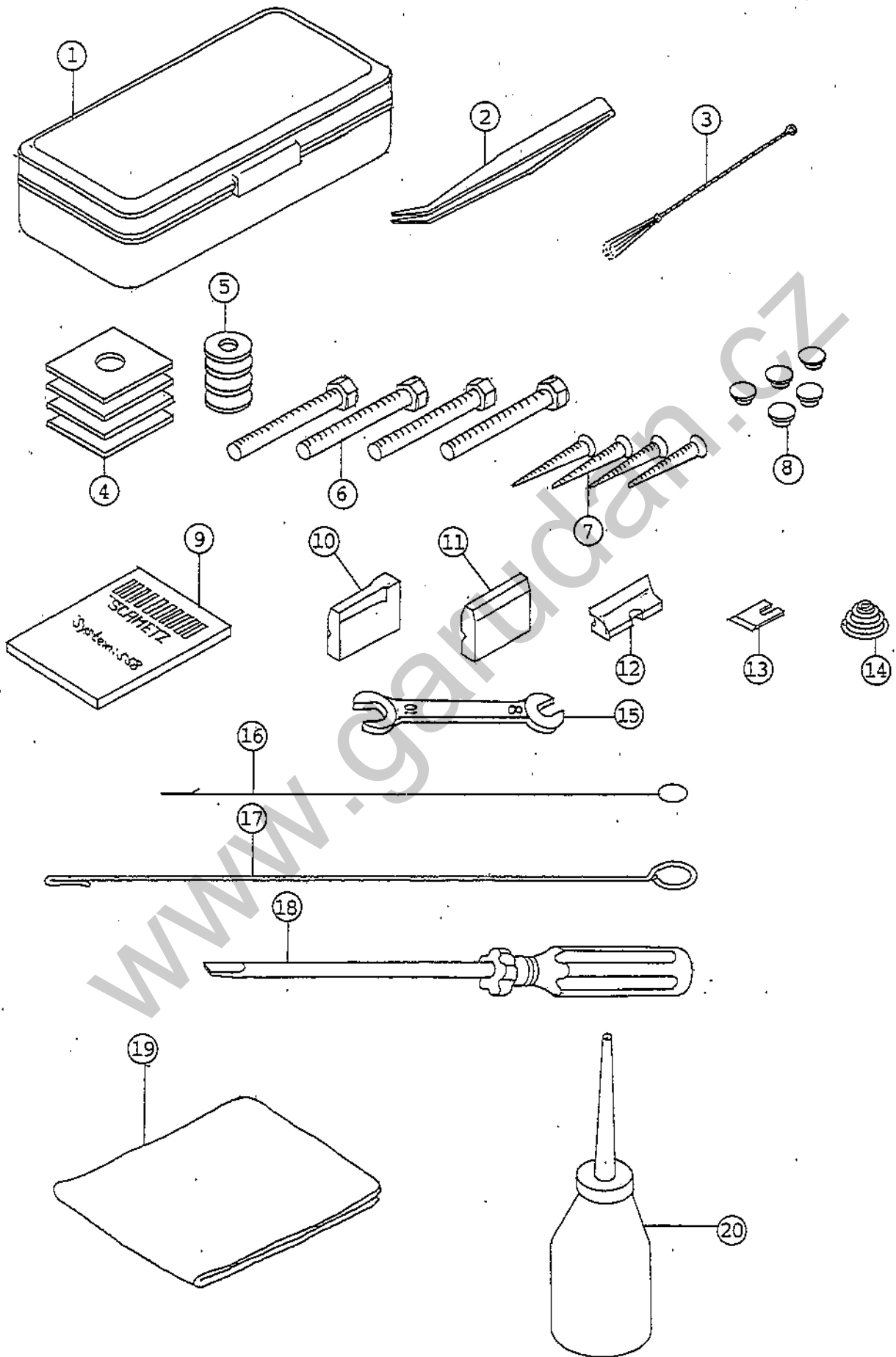
Cutting block eyelet 鳩目用メス受け	* ⑱	Part No. ・部品番号
	S1-2519 = 35mm S1-2519A = 22mm S1-2519B = 24mm S1-2419C = 26mm S1-2519D = 28mm S1-2519E = 18mm S1-2519F = 20mm S1-2519G = 16mm	
Knife eyelet 鳩目用メス	* ⑲	Part No. ・部品番号
	S1-2520 = (A) 4mm (B) 2,5mm S1-2520A = (A) 3.2mm (B) 2.1mm	
Cutting block straight 眼り目用メス受け	* ⑱	Part No. ・部品番号
	S1-2523 = 35mm S1-2523A = 22mm S1-2523B = 24mm S1-2423C = 26mm S1-2523D = 28mm S1-2523E = 18mm S1-2523F = 20mm S1-2523G = 16mm	
Knife straight 眼り目用メス	* ⑲	Part No. ・部品番号
	S1-2522	

No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Washer・ワッシャー	WP4005KC	1
2	Spring stud・バネ掛け	HR2001P	1
3	Spring・バネ	S1-2541	1
4	Spring stud・バネ掛け	HS3002P	1
5	Adjuster screw・調整ネジ	S1-2516	1
6	Nut・ナット	NF60H3S	1
7	Washer・ワッシャー	WP6008KU	1
8	Safety cap・安全片	S1-2524	1
9	Safety cap holder・安全片受	S1-2525	1
10	Screw・ネジ	SM5012CY	1
11	Cutting block arm・メス受アーム	S1-2533A	1
12	Clamp pin・クランプピン	PS4024WP	1
13	Stopper pin・位置決ピン	PS4010WP	1
14	Screw・ネジ	SM4012CY	1
15	Arm shaft・アーム取付軸	S1-2517	1
16	Screw・ネジ	SE-25119A-PY	1
17	Clamp・メス受クランプ	S1-2531	1
18	See the left page・左ページ参照		
19	See the left page・左ページ参照		
20	Screw・ネジ	SM4010HS	2
21	Screw・ネジ	SM4006FS	1
22	Positioning pin・位置決ピン	S1-2521	1
23	Screw・ネジ	SM4012HS	1
24	Knife cam・メスカム	SE-25109A-OY	1
25	Screw・ネジ	SF6006FS	2
26	Roller shaft・ローラー軸	S1-2514B	1
27	Shaft holder・軸取付板	S1-2551	1
28	Screw・ネジ	SM3006KP	2
29	Roller・カムローラー	S1-2581A	1
30	Connecting shaft・連結軸	S1-2515	1
31	Block arm・メス受け駆動腕	S1-2501B	1
32	Caution label・注意文シール	SE-97702A	1
33	Knife base・メス取付け台	S1-3331	1



No.	Discription/名 称	Part No. 部品番号	Q'ty 個数
1	Control box for 100V - 120V	SE-50K03A	1
1	電源ボックス100V - 120V	SE-50K03A	1
1	Control box for 200V - 230V	SE-50K02A	1
1	電源ボックス200V - 230V	SE-50K02A	1
2	Foot switch ・フットスイッチ	SE-51K01A	1
3	Thread guide set ・糸案内セット	SE-30801A	1
4	Box fixing plate ・電源ボックス板	SE-50503A-N	2
5	Screw ・ネジ	SM3006EC	4
6	Caution label ・注意シール	SZ-3171	2

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No.	Discription/名称	Part No. 部品番号	Q'ty 個数
1	Accessory box ・アクセサリーボックス	S1-3281	1
2	Tweezers ・ピンセット	S1-3285	1
3	Brush ・ブラシ	S1-3286	1
4	Washer for machine ・ワッシャー	WK802623U	4
5	Washer for machine ・ワッシャー	WP6010MK	4
6	Fixing screw ・機械固定ネジ	SM6070BP	4
7	Fixing screw ・ボックス固定ネジ	ST4032KU	4
8	Safety cap ・安全片	S1-2524	5
9	Needle ・針 (Schmetz 558)	S1-0581	1
10	Cutting block 35mm ・糸受	S1-2519	1
11	Cutting block 35mm ・糸受	S1-2523	1
12	Knife straight ・眠り用メス	S1-2522	1
13	Blade ・糸切刃	S1-3881	1
14	Tension spring ・糸調子バネΦ1	SZ-2941	1
15	Spanner ・スパナ 8mm - 10mm	S1-3283	1
16	Thread wire ・糸棒糸通し	S1-3211	1
17	Threading bar ・糸通し棒	S1-3212	1
18	Screw driver ・ドライバー	S1-3287	1
19	Machine cover ・機械カバー	S1-3288	1
20	Oiler ・油差し	S1-3284	1