

**Operation manual and parts book**  
High speed, automatic, lockstitch sewing machine  
with programmable stitches

***Art Auto 2***

 ***texi***

## In order to create a better environment

### Please, read carefully before use

First of all, I would like to express my heartfelt thanks to you for using our products. Our company is committed to caring for the earth's environment and has formulated the basic policy of "intelligent manufacturing and green manufacturing". Local citizens in environmental protection activities should also do little to the local community, the environment two aspects of everyone's contribution.

Therefore, I hope you can cooperate with this plan, as part of the environmental protection activities, when dealing with wastes in peacetime can pay more attention.

- 1.Unused packaging materials, in order to be recycled again, please send them to the local recycling company for disposal.
- 2.Lubricants used shall be properly handled according to relevant laws and regulations.
- 3.When parts need to be replaced in product maintenance or repair, there are unnecessary circuit boards and electronic parts, and when products are discarded, please treat them as electronic waste.

Thank you very much for purchasing our industrial sewing machine  
 Before using the sewing machine, please read <for your safe use> and use instructions carefully.

The characteristic of industrial sewing machine is that it should be operated near the moving parts such as needles and spindles, which are easy to cause injury, so please use the sewing machine correctly under the guidance of the safety operation knowledge of trained or skilled personnel.




## Safe Use

### [1] Security Usage Markup And Its Significance




The labels and pattern marks used in this instructions and products are for your safety and correct use of the products to prevent you and others from being harmed and damaged.

The methods and implications are as follows.

#### Sign

	<b>Danger</b> This content indicates that if this mark is mishandled, it will cause death or become serious.
	<b>Warning</b> This content indicates that if this mark is mishandled, people will die or be seriously injured.
	<b>Note</b> That if this mark is mishandled, it may cause minor or moderate injuries.

### Patterns And Symbols

-  ..... The symbol (△) indicates “points for attention”.  
 The pattern in the triangle represents the essential content that must be paid attention to.  
 (For example, the pattern on the left shows “watch out for injuries”.)
-  ..... The symbol (⊘) indicates “prohibition”.
-  ..... The symbol (●) indicates “must”.  
 The pattern in the circle indicates the substance of what must be done.  
 (For example, the pattern on the left shows “must be grounded”.)

## [2] Safety Precautions

### Danger



After closing the power switch and unplugging the power plug from the socket, wait for at least 5 minutes before opening the control box cover. Touching areas with high voltage can cause casualties.

### Warning



No liquid is allowed to enter the sewing machine, otherwise it will cause fire, electric shock and operation failure.



If any liquid enters the sewing machine (head or control box), turn off the power supply immediately, pull the plug out of the socket, and contact the vendor or senior technicians.

### Be Careful

#### Use Environment



Please don't use in the environment with strong electrical interference sources such as power line interference and electrostatic interference.

Strong electrical interference sources may affect the correct operation of sewing machines.



The fluctuation of power supply voltage should be used in the environment of rated voltage less than  $\pm 10\%$ .

The large fluctuation of voltage will affect the correct operation of sewing machine.



The power supply capacity should be greater than the power consumption of the sewing machine. Insufficient power supply capacity will affect the correct operation of sewing machine.



The ambient temperature should be used in the range of 5-35 degrees Celsius.

Low or high temperature will affect the correct operation of sewing machine.



Relative humidity should be in the range of 45% - 85%, and the equipment will not form condensation environment. Dry or wet environment and dew will affect the correct operation of sewing machine.



In case of thunderstorm, turn off the power switch and pull the power plug off the socket. Lightning may affect the correct operation of sewing machine.



Do not connect devices other than USB memory to USB connection ports. Otherwise, it may lead to failure.

#### Install



Ask trained technicians to install sewing machines.

Please commission the purchase shop or electrical professionals for electrical wiring.



The sewing machine weighs about 38Kg. Installation must be completed by more than two people.



Please do not connect the power supply before the installation is completed. If you step on the pedal by mistake, the sewing machine will cause injury.



Please unplug the plug after cutting off the power supply.



Otherwise, it will easily become the cause of the failure of the control box.



It must be grounded.

Insufficient ground connection is the cause of electric shock or misoperation.



When fixing the cable, do not bend the cable excessively or fix it too tightly with clamps, which may cause fire or electric shock.



If a worktable with casters is used, the casters should be fixed so that they cannot move.



When the head of the sewing machine falls down, please make sure that the worktable is fixed and not moved at will.

Accidents such as foot clamping have occurred in the movement of worktable, which is the cause of personal accidents.



When the sewing machine head falls down or stands up, please operate with both hands.

One-handed operation can easily cause injury if the weight of the sewing machine slips.



When lubricating oil and butter are used, it is necessary to wear protective glasses and gloves to prevent lubricating oil from falling into serious or sticking to the skin, which is the cause of inflammation.

In addition, lubricants or butter should not be drunk, otherwise vomiting and diarrhea will occur.

Keep oil out of reach of children

# Be careful

## Sewing



This sewing machine is only used by persons trained in safe operation.



This sewing machine cannot be used for any purpose other than sewing.



Protective glasses must be worn when sewing machines are used.

If you don't wear protective glasses, there will be danger when you break the needle. The broken part of the needle may pop into your eyes and cause injury.

When the following happens, please cut off the power supply. Otherwise, when you step on the pedal, the sewing machine will cause injury.



- When the needle goes through the thread
- When changing needle or shuttle core
- When a sewing machine is not in use or when a person leaves the sewing machine



If a worktable with casters is used, the casters should be fixed so that they cannot move.

For the sake of completeness, please install protective device before using this sewing machine. If these safety devices are not installed, use sewing opportunities to cause personal injury and sewing machine damage.



During the sewing process, do not touch any moving parts or place the objects on the moving parts, because this will cause injuries to people or damage to the sewing machine. When the head of the sewing machine falls down, please make sure that the worktable is fixed and not moved at will. Accidents such as foot clamping have occurred in the movement of worktable, which is the cause of personal accidents.



When the sewing machine head falls down or stands up, please operate with both hands.



One-handed operation can easily cause injury if the weight of the sewing machine slips.



If the sewing machine operates incorrectly, or hears abnormal noise or smells abnormal odor, the power supply should be cut off immediately. Then contact the shop or trained technicians.



If the sewing machine breaks down, please contact the shop or trained technicians.

## Clean



Please cut off the power supply before starting the cleaning operation.

If you step on the pedal by mistake, the sewing machine will cause injury.



When the head of the sewing machine falls down, please make sure that the worktable is fixed and not moved at will. Accidents such as foot clamping have occurred in the movement of worktable, which is the cause of personal accidents.

When the sewing machine head falls down or stands up, please operate with both hands.



One-handed operation can easily cause injury if the weight of the sewing machine slips.



When lubricating oil and butter are used, it is necessary to wear protective glasses and gloves to prevent lubricating oil from falling into serious or sticking to the skin, which is the cause of inflammation.

In addition, lubricants or butter should not be drunk, otherwise vomiting and diarrhea will occur. Keep oil out of reach of children

## Maintenance And Inspection



Only trained technicians can repair, maintain and inspect sewing machines.



Maintenance, maintenance and inspection related to electricity should be entrusted to purchasing shops or electrical professionals.



Turn off the power supply when the following happens. Pull the plug from the power outlet.

Otherwise, when you step on the pedal, the sewing machine will cause injury.

Inspection, adjustment and maintenance  
Replacement of fragile parts such as spindle and cutter



Before opening the motor cover, be sure to turn off the power supply, wait a minute, and then perform the operation. Touching the motor surface can cause burns.



When the power switch must be connected to adjust, be sure to switch to maintenance mode.  
Be careful to observe all safety precautions



When the head of the sewing machine falls down, please make sure that the worktable is fixed and not moved at will. Accidents such as foot clamping have occurred in the movement of worktable, which is the cause of personal accidents. When the sewing machine head falls down or stands up, please operate with both hands.



One-handed operation can easily cause injury if the weight of the sewing machine slips. When replacing parts or installing optional accessories, be sure to use only genuine parts.



The Company will not be liable for any accident or malfunction caused by the use of non-authentic parts. When removing the safety protection device and installing it again, be sure to install it in situ and check whether it can work properly.



In order to prevent accidents and malfunctions, please do not alter the sewing machine without authorization.



The Company will not be liable for any accident or malfunction caused by the modification of the sewing machine.

# 1 Precautions Prior to Startup

1.The machine head is coated with a thick layer of rust-prevention grease before encasement, and the encased machine head may possibly be subjected to grease hardening and dust buildup on the machine surface in process of long storage and long-haul traffic; therefore, take care to remove the grease and dust from the surface using soft cloth and gasoline.

2.Though the machine was inspected and tested with care before factory leaving, it might be affected by violent vibration resulting in looseness or distortion of the machine parts; therefore the operator shall thoroughly check the machine, turn the upper wheel by hand and check it for difficulty in free rotation, slight impact, and other uneven resisting force or abnormal noises, and make appropriate adjustment if any to restore the machine state before formal trial run.

3. Never start up the machine if the oil liquid level in the oil box falls outside the normal range.

4.The upper wheel shall rotate counterclockwise (when it is viewed from the lateral surface of the upper wheel) when the machine is operating.

5. Check whether the voltage and phases indicated on the electric-control data plate are correct.

6.The date of manufacture is indicated on the certificate of conformity.

# 2 Precautions for Use

1.Never touch the needle by hand when the machine is powered on or while it is operating.

2.Never put your finger into the protection cover of take-up lever during operation of the machine.

3.The operator must not put his finger into the needle guard bracket when he feeds the sewing materials by hand.

4.Operator must trim off the electricity supply before he turns over the machine head or removes the hand cover.

5.The operator must trim off the electricity supply before he gets away from the machine.

6.Prohibit the head, hands and anything to approach the upper wheel and bobbin winder while the machine is operating.

7.Never remove or mount the protection cover or other protection devices before the machine is stopped.

8. Never wipe up the surface of machine head using paint thinner such as acetone.

### 3 Main Technical Specifications

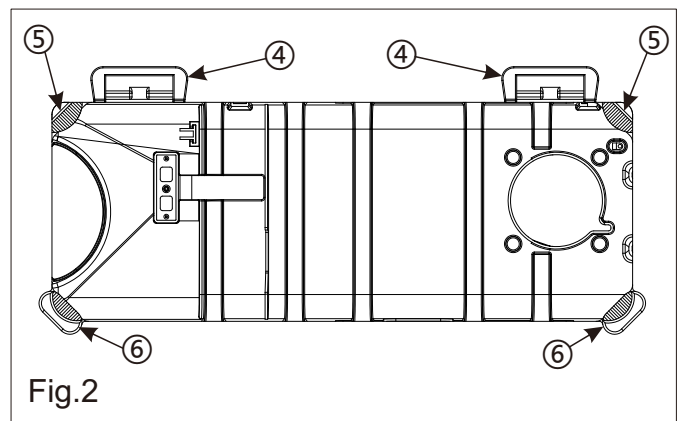
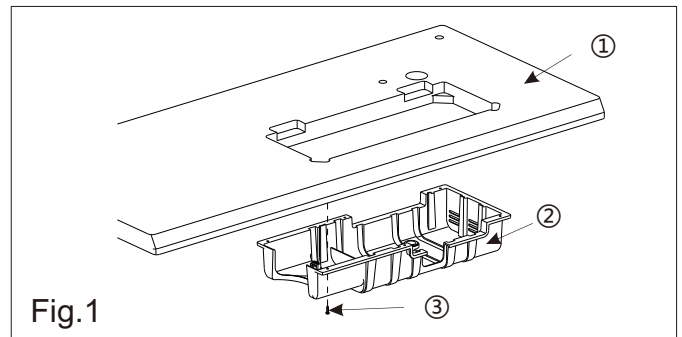
Specification		Parameter
Application		For medium-weight materials
Maxsewing speed		5000 sti/min
Maxstitch		5 or 7mm
Length Needle		DP ×5 9# ~ 22#
Presser foot lift height	Hand lifter	5.5mm(Max)
	Knee lifter	13mm(Max)
Lubricating system		Auto
Lubrication oil		10# White oil
Motorpower		220V/550W

# 4 Mounting the Machine (Fig.1, Fig. 2, Fig.3, Fig.4 and Fig. 5)

## 1.Installation of oil pan and machine

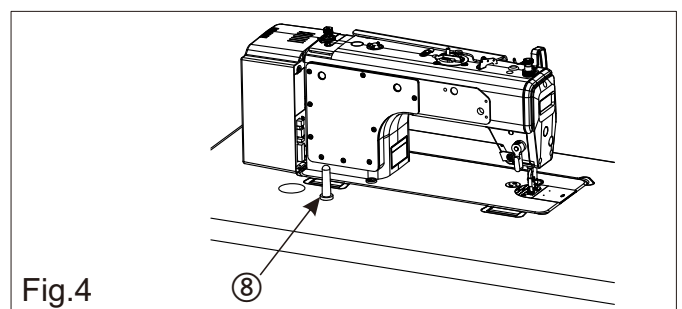
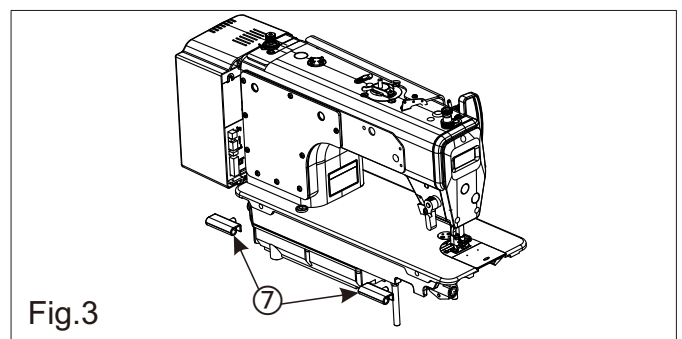
Fix the oil pan ② under the table ① with 6 screws ③ as shown in the Fig.1.

As shown in the Fig,2 ,fix two cushions ⑤ and two support seats ⑥ in four corner of the machine table ⑤ respectively , then fix connecting hook seat ④ on the machine table ① with 6 screws.



Insert machine head coupling hook ⑦ into the pin holes in the bottom plate such that it is embedded into the coupling hook seat ④, and put the machine head onto the seating washer on four corners of the oil tray.

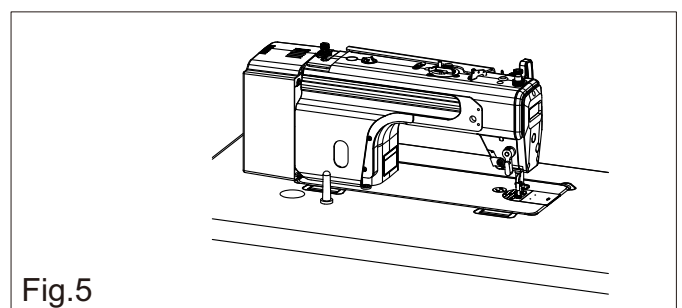
As shown in the picture,insert head support ⑧ into the machine table firmly.



## 1.Installation of plastic rear cover

Plug in the connecting wires on the electronic control.

Fix the plastic rear cover on the sewing machine as the Fig.5 shown.





## 5 Lubrication of machine(Fig.6 )

### 1.Lubrication of gearbox

Fill gearbox if the oil pointer ② below the lower tick mark in the oil window ③ when using the sewing machine.

The steps of lubrication are as follow:

- 1) Remove the rubber plug ① of oil filler, fill with oil using the oil bottle in accessory box. (No.10 white oil)
- 2) Fill oil until the oil pointer ② reaches the upper tick mark in the oil window ③. Do not fill too much oil otherwise the oil will flow into head when turnover machine.

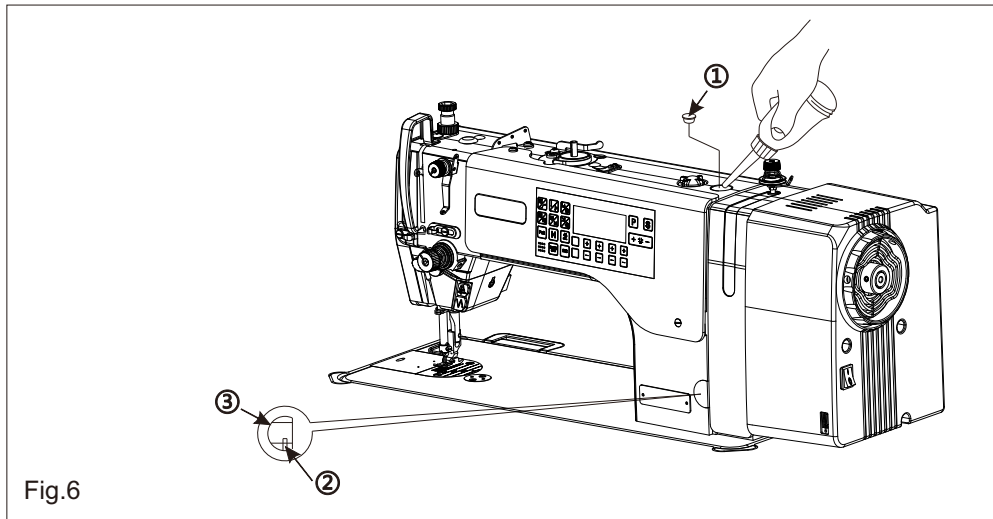


Caution:

- 1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



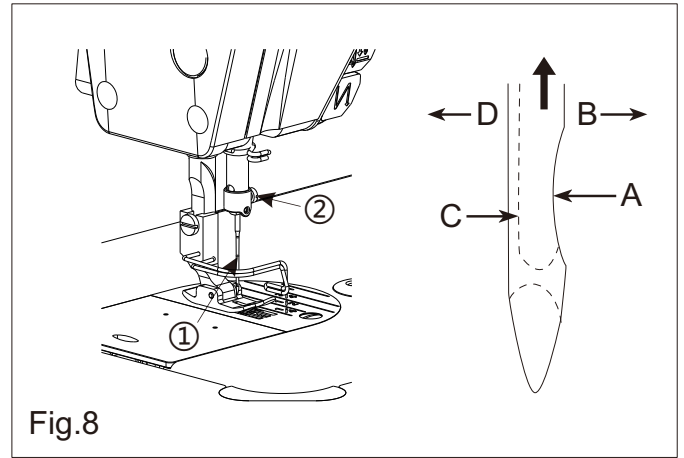
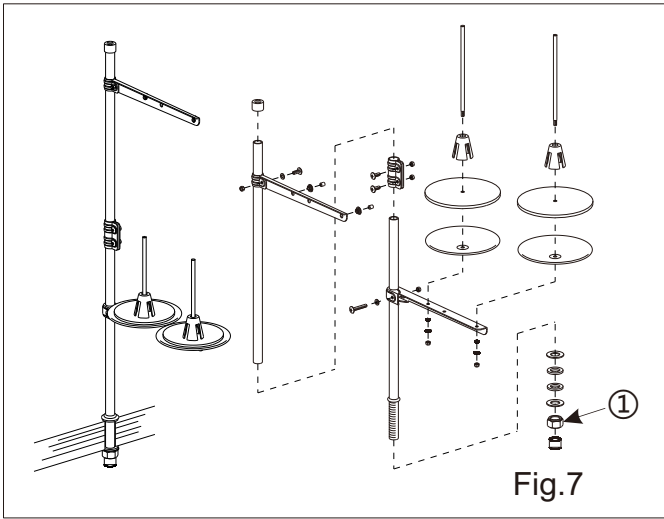
- 2.When using the new sewing machine for the first time, open the rubber plug ① of oil filler and fill with 500ml oil.(No.10 white oil)



## 6 Mounting the Thread Stand (Fig.7)

1.As shown in right-hand figure, mount the thread stand component onto the mounting hole for thread stand on the sewing machine table.

2.Screw down retaining nut ① for lower segment of thread stand lever to fix the thread stand.



## 7 Mounting the Needle (Fig.8)

1. Turn the upper wheel to allow the needle to reach its maximum height.
2. Unscrew needle carrying screw ② hold needle ① by hand, and align the indentation A of needle to right direction B.
3. Insert the needle into the bottom of needle hole in direction of arrow till it reaches the end point.
4. Screw down the needle carrying screw ②
5. Take care to ensure that the elongated slot C on the needle is aligned to the left direction D.



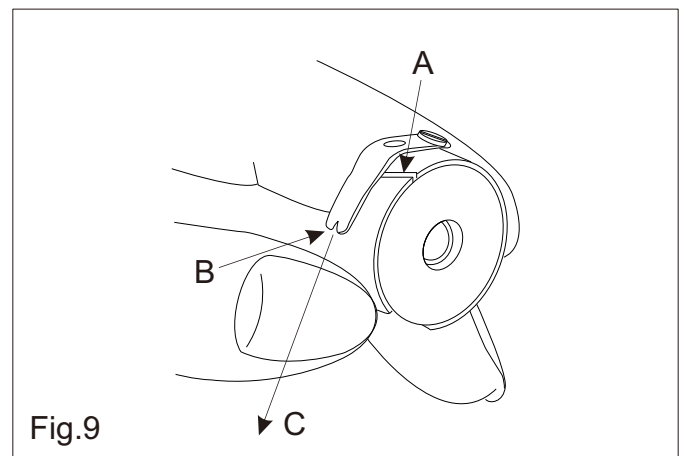
### Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2. Needles are available in different sizes. Please select appropriate needle as per the thickness of threads and the sewing materials.

## 8 Mounting the Bobbin (Fig. 9)



1. Hold the rotating hook by hand, and fit the bobbin into the rotating hook.
2. Thread the thread through the thread groove A in the rotating hook, and draw out the thread in direction C. In this way, the thread is led out of hole B through the tension spring.
3. When bobbin thread is drawn, the bobbin shall turn clockwise in direction of arrow.

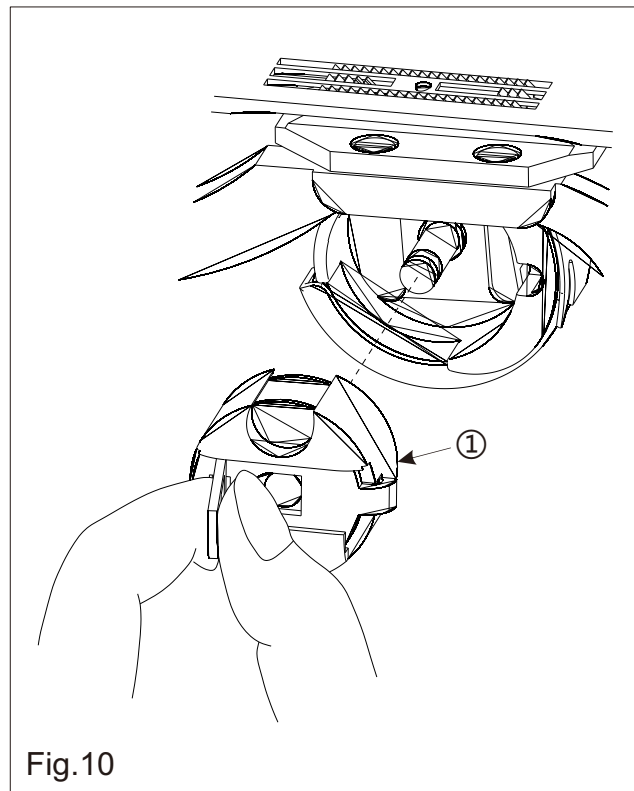


Fig.10

## 9 Installation of bobbin case (Fig. 10)

1. Turn the machine pulley to raise the needle until it is above the needle plate.
2. Hold the bobbin case ① (with bobbin) with one hand, then install the bobbin case into the hook.



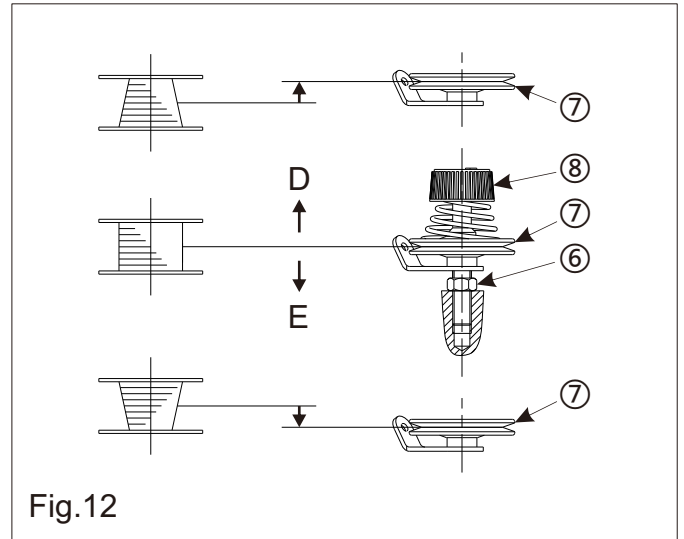
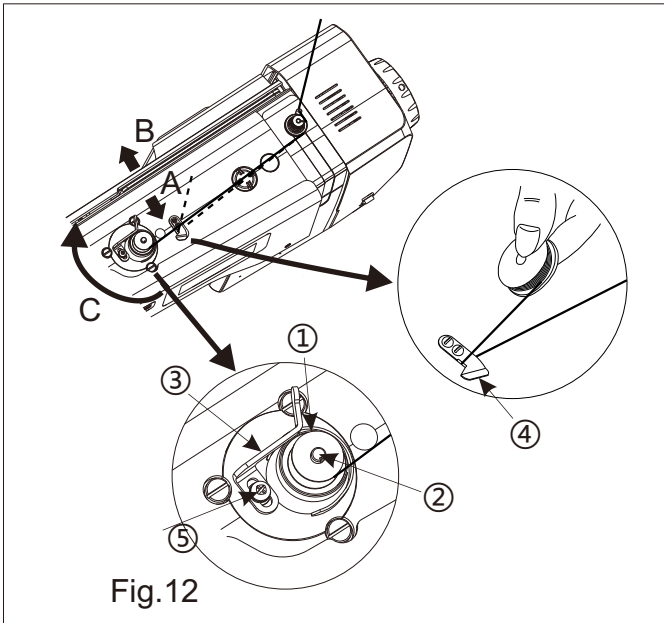
Caution:



1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

## 10 Winding up the Bobbin Thread (Fig. 11, Fig. 12)

1. Bobbin thread winding-up method  
Fit bobbin ① onto spool ②.
2. Thread the right-hand thread coiling on thread stand as shown in right-hand figure, and reel the thread end rightwards onto the bobbin for several turns.
3. Push winding lever ③ over to direction A, and run the sewing machine. Bobbin ① is rotated in direction C, and thread is reeled onto bobbin ①. Once the reel is full, winding lever ③ is pushed toward direction B, and winding is over.  
Remove bobbin ①, and trim off the thread using winding trimmer ④.



**Caution:**



1. To reel bobbin thread onto bobbin ① when no sewing is performed, draw the needle thread out of hole in the take-up lever, remove bobbin ① out of rotating hook.



2. Do not touch or lean anything to any running components when rolling the bottom line, in order to avoid the safety accident.

**1. Adjusting the bobbin thread winding**

1) To adjust the winding capacity of bobbin thread, unscrew fixing screw ⑤, set winding lever ③ in direction A or direction B, and fix screw ⑤ again. Direction A is intended for reduction, and direction B is intended for increase (Caution: The amount of thread wound onto the bobbin should be a maximum of 80% of the bobbin capacity).

**2. If thread cannot be wound onto the bobbin flatly,**

unscrew nut ⑥, turn the winding tension disc, and adjust the height of thread gripper plate ⑦.

a. The standard position is reached once the center heights of rotating hook ① and thread gripper plate ⑦ are identical.

b. If the winding amount on the lower part is bigger, move the winding tension disc in direction D indicated in the right-hand figure.

3. If the winding amount on upper part is bigger, move the winding tension disc in direction E indicated in the right-hand figure.

When the winding tension disc reaches its suitable position, screw down fixing screw ⑥.

Adjust the winding tension of bobbin thread by turning thread tension nut ⑧. Thread the needle thread when needle bar stays in its highest position, lead out the thread end from the thread stand, and conduct threading as per the serial numbers indicated in the figure.

# 11 Threading the Needle Thread (Fig. 13)



Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

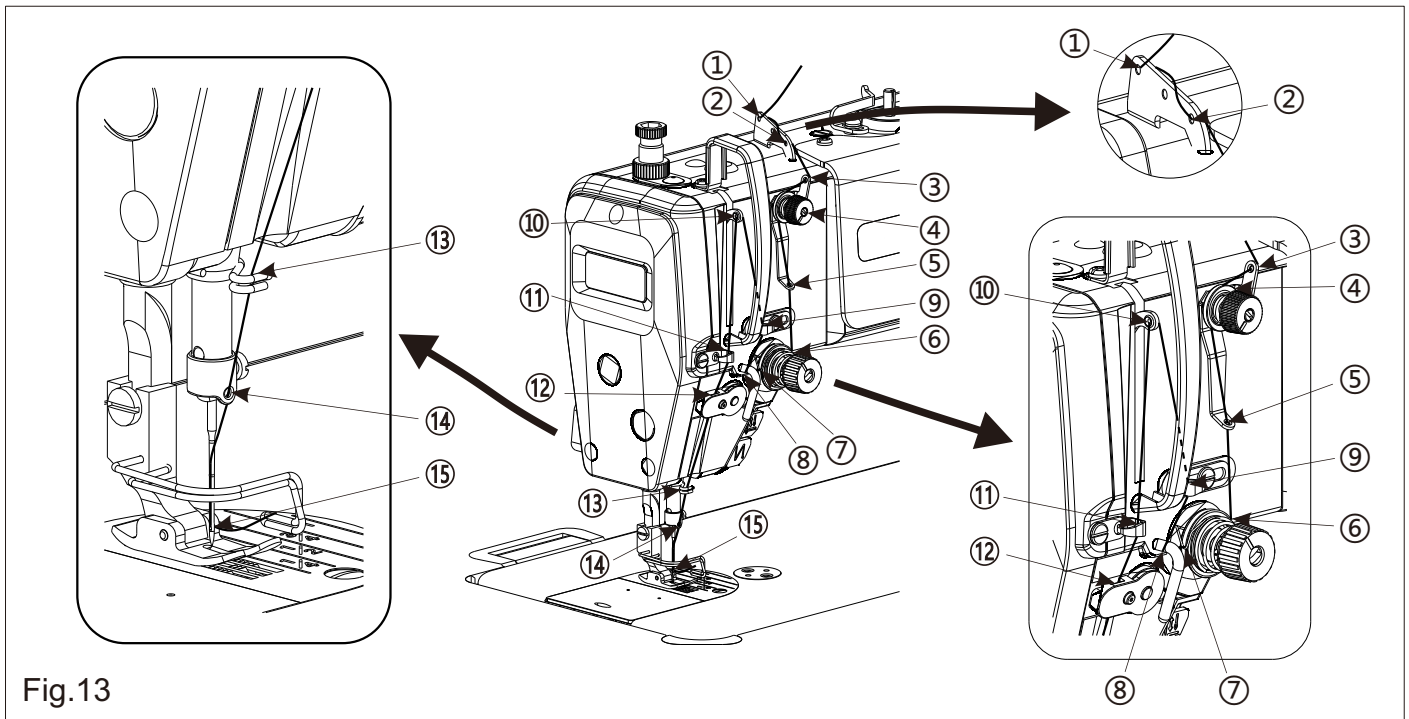


Fig.13

# 12 Lifting of presser foot (Fig. 14, Fig. 15)

## 1. Lift presser foot controlled by hands

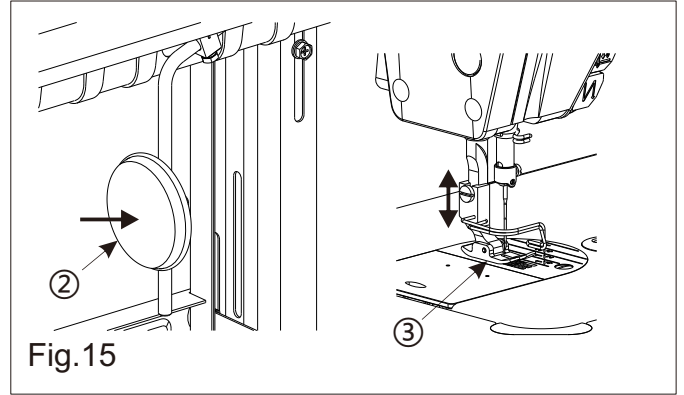
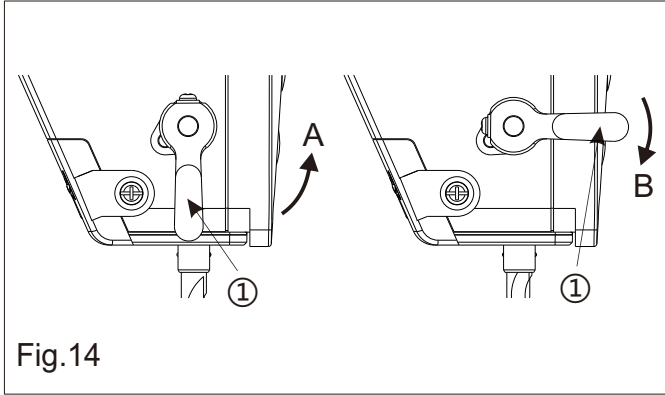
1) Shut down the machine, turn presser foot lever ① in direction A to uplift the presser foot (for about 5.5 mm).

2) When presser foot lever ① is turned in direction B, presser foot will be returned to its original position.

## 2. Lift presser foot controlled by knees

The presser foot ③ can be raised by pressing the knee lifter plate ②. (Height of presser lifting is related to the degree of knees pressing) The height of presser foot are respectively about 10mm and 13mm when pressing knees fully. The lifting presser foot ③ lowers as soon as releasing the knee lifter plate ②.

Caution: standard and maximal lifting height



## 13 Adjusting the Stitch Length

The stitch pitch is controlled by the stepper motor , and there is no mechanical function to adjust the stitch pitch . If you need to adjust the stitch pitch , please directly adjust the stitch pitch on the operation panel. For the specific adjustment method , please refer to the elec-tronic control operation manual.

## 14 Hand-touch Backstitch Device(Fig. 16)

### 1. Use of back sewing push-button

- 1) Push the backstitch switching push-button ① to allow the sewing machine to start backstitch immediately.
- 2) Backstitch is implemented only while the push-button is held down.
- 3) It is changed to forward stitch once the push-button is released.

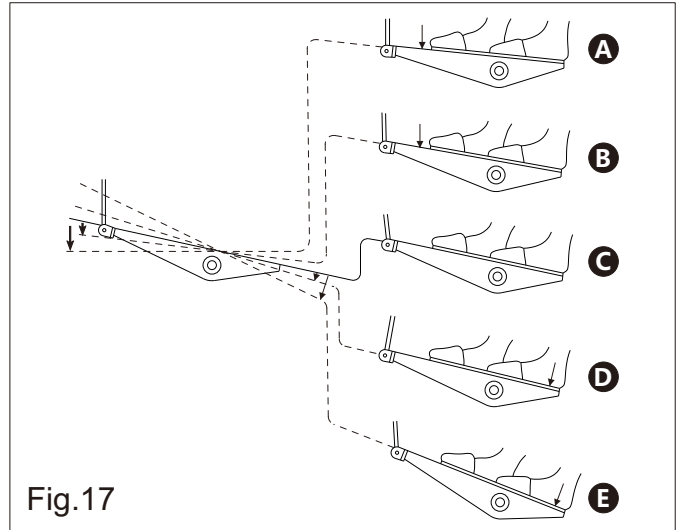
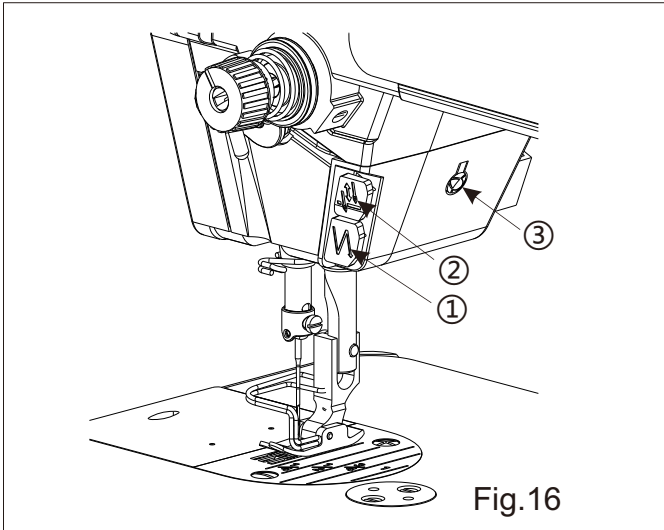
### 2. Use of reinforce sewing

Press the reinforce sewing button ② one time, the sewing machine reinforce forth with half stitch, press all the time, it continues sewing with forth reinforce.

Caution: in addition to continue back reinforce sewing, the reinforce sewing bouton can be as stop button ② during any sewing condition.(before trimming)

### 3. Use of the light push-button

The illuminating lamp goes on at full brightness once the machine is powered on. Push illuminating lamp control button ③ to reduce in sequence the brightness till turn off.



## 15 Operating the Treadle(Fig. 17)

1.The treadle has 4 operation levels:

- 1) The machine runs at low sewing speed when you lightly depress the front part of the pedal.  
(as show in the picture B)
- 2) The machine runs at high sewing speed when you further depress the front part of the pedal.  
(as show in the picture A)
- 3) Pedal back to the initial position when stepping on it and the machine stop working.(needle in the upper or down position)(as show in the picture C)
- 4) The machine trims threads when you fullydepress the back part of the pedal (as show in the picture A).

When the auto-lifer is used,one more operating switch is provided between the sewing machine stop switch and thread trimming switch.The presser foot goes up when you lightly depress the back part of the pedal(D),and if you further depress the back part,the thread trimmer is actuated.

# 16 Adjusting the Treadle(Fig. 18, Fig. 19, Fig. 20)

## 1.Adjusting the angle of treadle

- 1) Adjust the angle of treadle only by adjusting the length of treadle connecting rod: unscrew screw ①, and adjust the length of treadle connecting rod by moving upward/downward the upper connecting rod ② and lower connecting rod ③.
- 2) Screw down screw ① when adjustment is over.



### Caution:

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

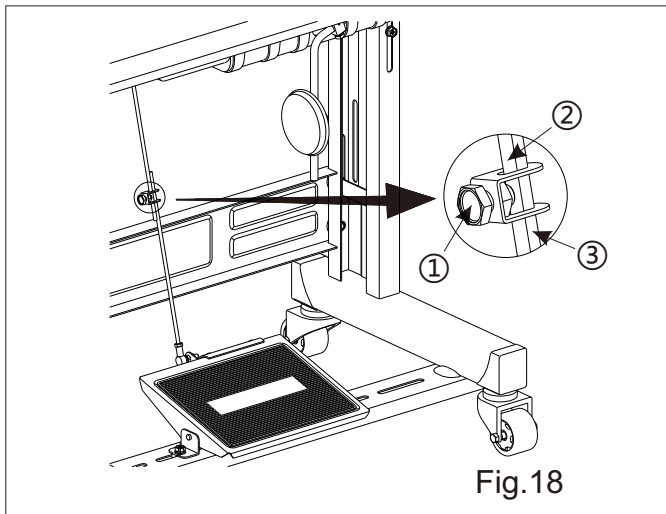


Fig.18

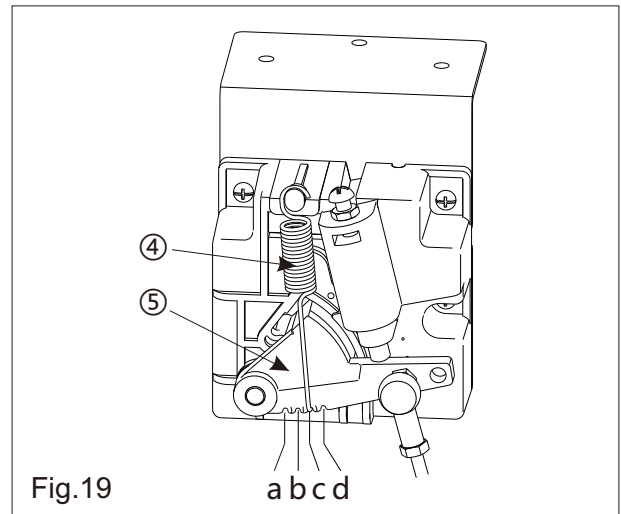


Fig.19

## 2.Adjustment of the strength of pedal

The sewing machine run at a low speed when step forth on the panel slightly.If the strength is insufficient, hang the stepping adjustment spring ④ on the panel spiral arm driving lever ⑤ in order to adjust strength.(a is the minimum stepping strength ,b,c,d increase gradually)



### Caution:

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.





### 3.Adjustment of stepping return strength

- 1) Loosening nut ⑥ and turning bolt ⑦ to adjust stepping return strength : tightening bolt ⑦, the strength increases; loosening bolt ⑦, the strength decreases.
  - a) Tighten nut ⑥ after adjusting stepping return strength.



#### Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

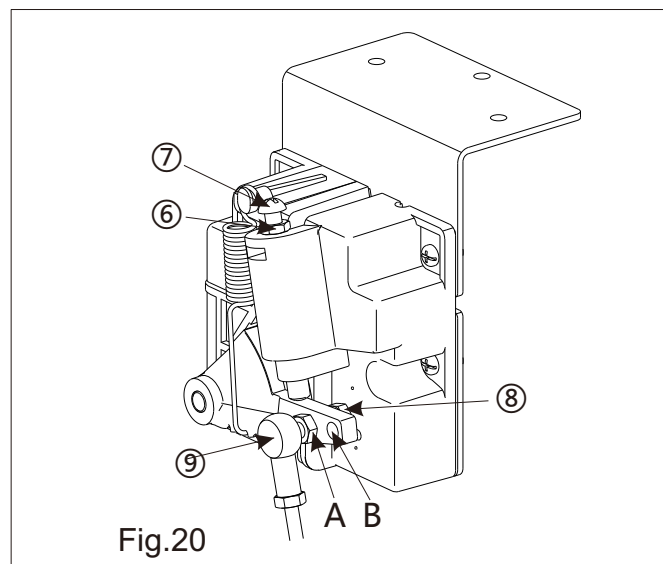
### 4.Adjustment of panel moving distance

- 1) Remove nut ⑧.
- 2) Move connecting rod joint ⑨ from A to B, panel moving distance is 1.3 times than original one.
- 3) Move reversely the distance is 0.8 times as original one.
- 4) Assemble the nut ⑧ after adjusting panel moving distance.



#### Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.
2. Stepping strength and stepping return strength both change after adjusting panel movement, follow the steps above to have adjustments again.



# 17 Oil mass Adjustment of Rotating Hook (Fig.21, Fig.22, Fig.23)

## 1. Adjustment method

- 1) Adjust the oil mass of rotating hook using adjusting screw ① :Screw down (turn it to the right) adjusting screw ① to raise the oil mass ,or unscrew (turn it to the left) the adjusting screw to lower the oil mass. Amount repeatedly until the lubrication amount is correct.
- 2) Check the lubrication amount again after the sewing machine has been used for approximately two hours.

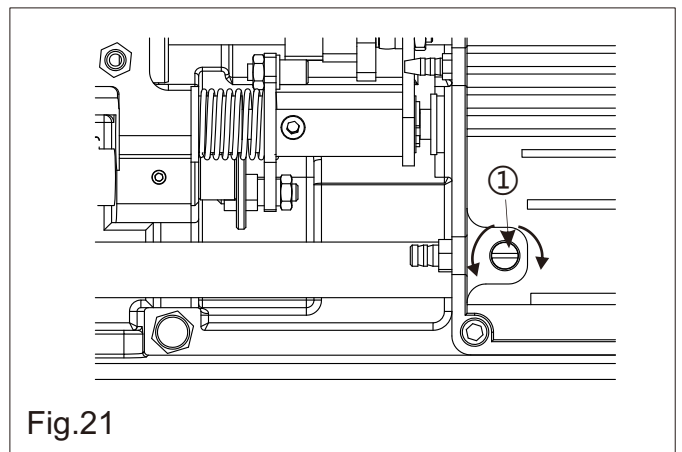
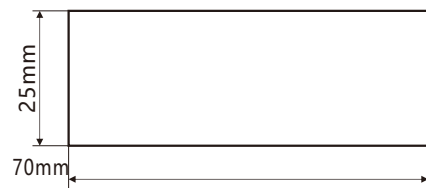


Fig.21

### Special oil mass confirmation paper



### Position for oil mass confirmation

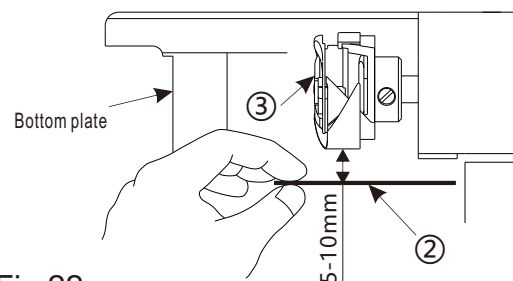
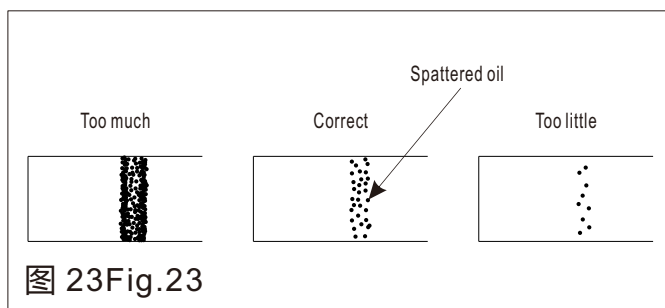


Fig.22

## 2. Confirming the Oil Mass

- 1) Remove the thread from all points from the thread take-up to the needle.
- 2) Use the lifting lever to lift the presser foot.
- 3) Run the machine at the normal sewing speed for approximately 3 minutes without sewing any material (following the same start/stop pattern as when actually sewing)



- 4) Place the lubrication amount check sheet ② underneath the rotary hook ③ and hold it there. Then run the sewing machine at the normal sewing speed for 10 seconds.  
(Any type of paper can be used as the lubrication amount check sheet ②)
- 5) Check the amount of oil which has spattered onto the sheet ②.



### Caution:



1. Prior to the above-mentioned operation, remove the knockout plate and check whether there is oil in the oil box.
2. Do not use fingers to touch the hook or other running components of feeding mechanism when checking the amount of oil for the hook to avoid the accident.
3. Use the following procedure to check the amount of oil being supplied to the rotary hook when replacing the rotary hook or when changing the sewing speed.

## 3. Guide sample of oil mass adequacy

- 1) The guide sample shown in the right-hand figure (see Fig. 23) may be finely adjusted

# 18 Adjusting the Presser Foot Pressure (Fig. 24)

1. Unscrew pressure adjusting nut ②.
2. Presser foot pressure is:
  - increased if pressure adjusting screw ① is turned clockwise (namely in direction A);
  - reduced if the screw is turned counterclockwise (namely in direction B).
3. Screw down pressure adjusting nut ② when adjustment is over.

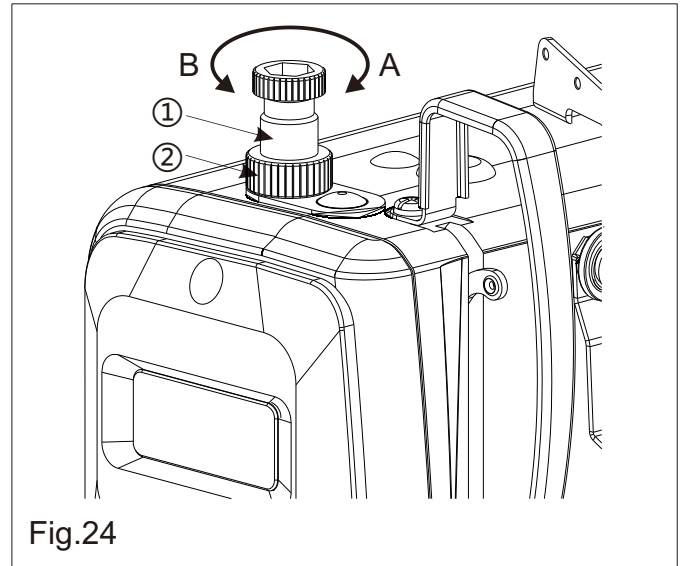
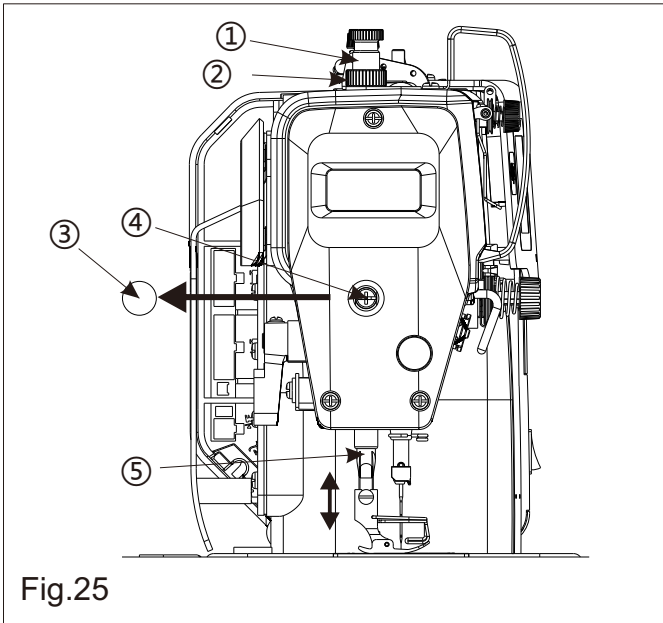


Fig.24

**Caution:**



1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2. For ordinary materials, the standard height of pressure adjusting screw ① ranges from 32 to 34mm (4.5 kilogram force) approximately.

## 19 Adjusting the height and angle of presser foot(Fig. 25)

1. Loosen pressure adjusting nut ② and screw ①, free the pressure of presser foot
2. Open rubber plug ③ in panel.
3. Loosen screw ④ in compression rod guide frame, move mobile compression rod ⑤ from up and down to adjust the height and angle of presser foot. (height of presser foot is the distance from needle plate surface to the bottom of it, the standard height of lifting presser foot by hand is 5.5mm)
4. Tighten the screw ④ in compression rod guide frame and assembly the rubber plug ③ after adjusting.
5. Adjust pressure of presser foot through pressure adjusting screw ①, tighten the nut ② after adjusting.

**Caution:**



1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2. After adjusting, check that the needle moves down into the center of the groove in the presser foot.

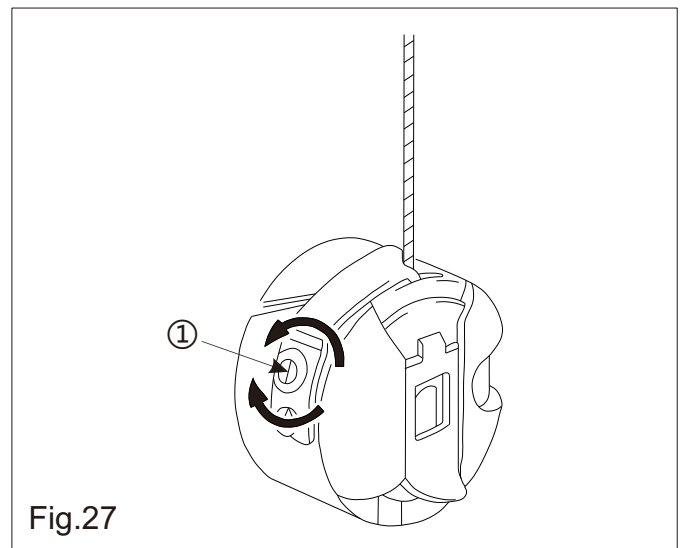
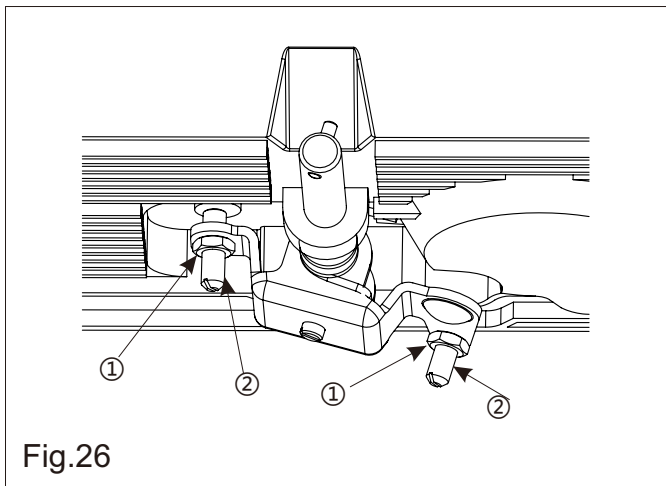
## 20 Adjustment of The Knee Lift Height(Fig. 26)

1. Turn the machine pulley so that the feed dog is below the top of the needle plate.
2. Lower the presser foot by using the lifting lever.
3. Unscrew the nut ① and rotating the screw ② are the purpose to adjust the height of presser foot when the knee totally pushed to the touch point (by knee, the standard height:10 mm , the maximum height :13mm)
4. Securely tighten the nut ①.



### Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



## 21 Adjusting the Tension of S titch T hread(Fig. 2 7, Fig. 28)

1. Adjusting the tension of bobbin thread Hold the end of a thread which hanging from the bobbin case and use the adjusting rotating scerw ① to regulate. The tension of the bottom thread is become strong by tight the screw ①, loose the screw to make it weak.

Caution : The adjust standard of the bottom thread tension: Rotating the adjusting screw ① till the bobbin case can falling slowly by it's own weight.



**Caution:**

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

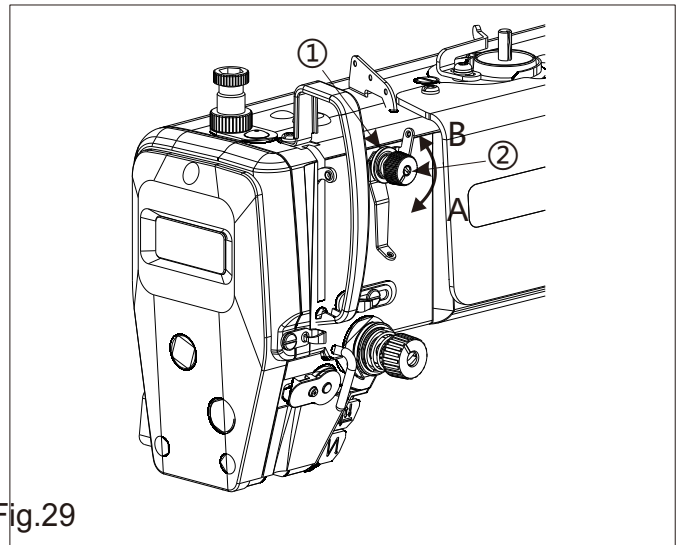
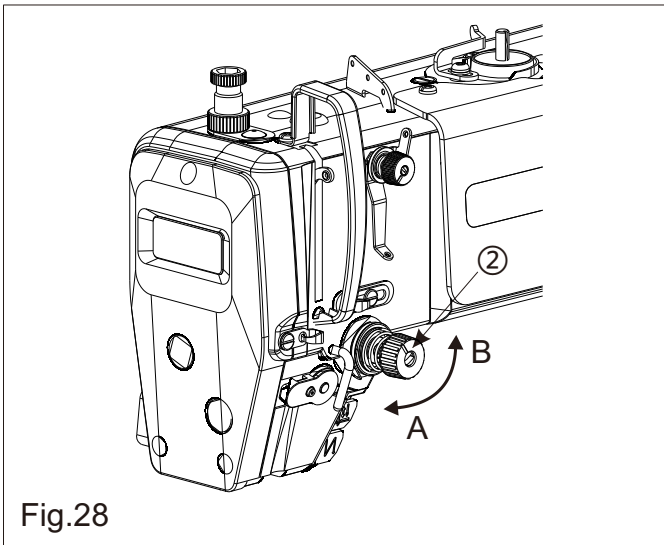
**2. Adjusting the tension of needle thread**

After the lower thread tension has been adjusted, adjust the upper thread tension so that a good, even stitch is obtained.

1) Lower the presser foot by using the lifting lever.

2) Adjust by turning the tension nut ② :

The tension of the upper thread will become strong when turning toward the clockwise (A), otherwise weak when toward anti-clockwise (B).



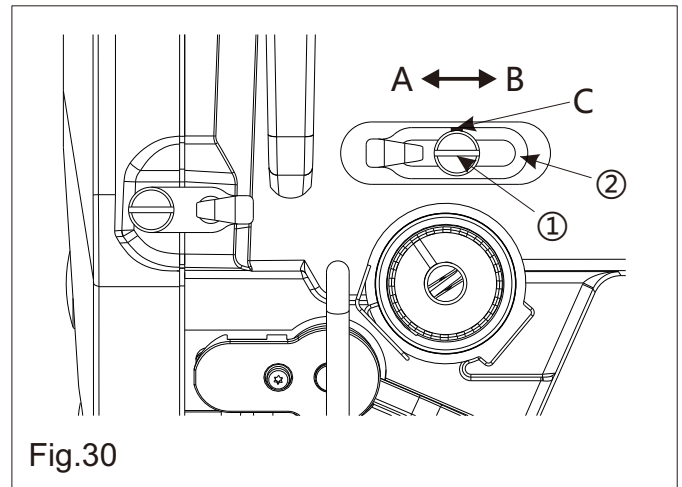
## 22 Adjustment of the Upper Thread Length after Trimming (Fig. 29)

At the time of thread trimming, the thread tension is loosened and tension is applied by the thread clamp ① only. If added the tension in the thread clamp ①, the upper thread length that left in the pinhole will be shorter, and vice versa.

1. The length of upper thread which left in the pinhole will decrease when turning the adjusting nut ② in the thread clamp ① towards the clockwise (A), otherwise it will increase when turn toward anti-clockwise (B). (The standard length of the upper thread which left in the pinhole is 25~30mm)

## 23 Adjusting the Take-up Amount of Take-up Lever (Fig. 30)

1. Unscrewing the screw ①.
2. Move the right thread hook ② to adjust : the thread amount of thread take-up lever will increase if turned it towards left (A direction), while turning it to the right (direction B) and the thread amount of thread take-up lever will decrease accordingly. (The standard position is obtained when graduation line C on right thread hook is aligned to screw center.)
3. Remember to tight the screw ① after adjusting.



**Caution:**

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2. For heavy duty , move the right thread hook ② to left to add amount of thread.

3. For light material , move the right thread hook ② to right to reduce amount of the thread.

## 24 Adjusting the Take-up Spring (Fig. 31)

### 1. Adjusting the tension of take-up spring

1) Unscrew screw ②, and take out thread clamp ⑤(assembly).

2) Unscrew screw ④ in thread clamp ⑤.

3) Rotating the screw ③ in the thread clamp to adjust, The tension of the thread take-up spring will become larger when turning toward the clockwise(A), otherwise smaller when toward anti-clockwise (B).

2. Screw down screw ④ when adjustment is over, fit thread clamp ⑤ (assembly) into the machine, and screw down screw ②

Judgment basis for adjustment adequacy of take-up spring: Confirm that the tension of take-up spring is properly adjusted, draw out the needle thread in direction B. If place B of needle thread is drawn before take-up spring reaches its lowest position, reduce the tension of take-up spring.

Caution:



1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.The take-up spring is already adjusted properly before the machine leaves the factory as a rule, and it requires readjustment only for sewing of special materials or usage of special stitch threads.

2.Adjustment of the Stroke to the Thread take-up Spring:

- 1) Lower the presser foot by using the lifting lever.
- 2) Loosen the set screw ②.
- 3) Rotating the screw ③ in the clamp to adjust, the stroke to the Thread take-up Spring ① will increase when turning toward the clockwise(A), otherwise decrease when toward anti-clockwise (B).  
(The standard stroke, under the state of presser foot was put down is around 6~7mm higher than the slow hook)
- 4).Securely tighten the screw②.

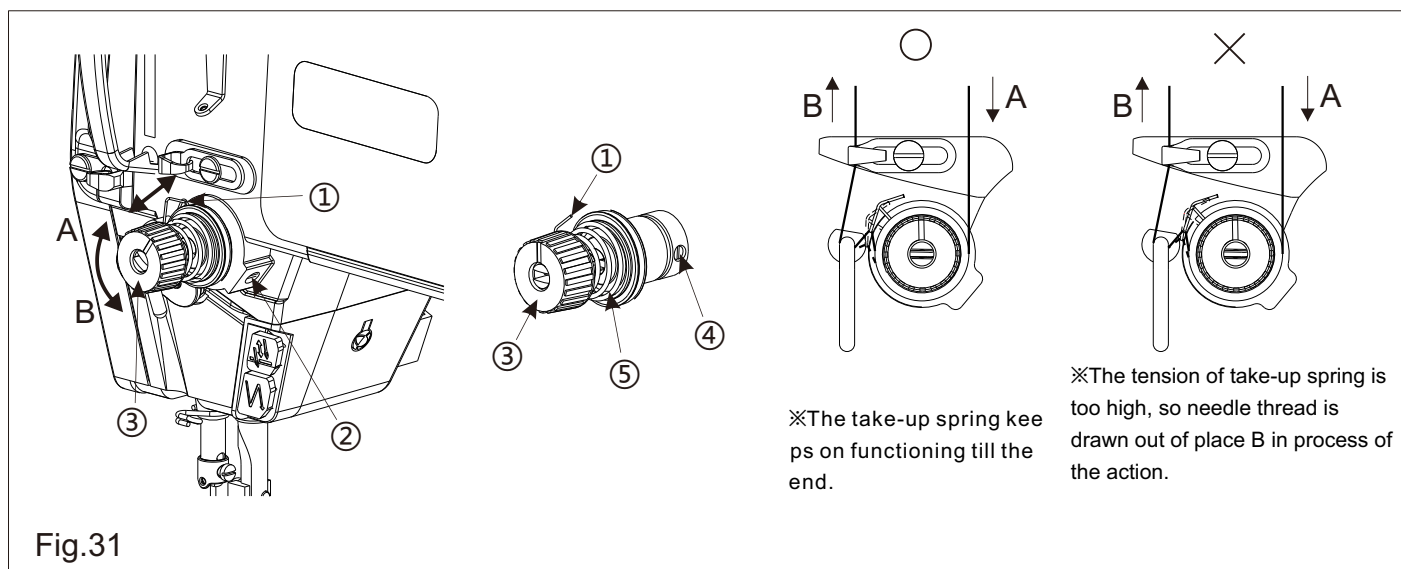
Caution:



1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.The take-up spring is already adjusted properly before the machine leaves the factory as a rule, and it requires readjustment only for sewing of special materials or usage of special stitch threads.





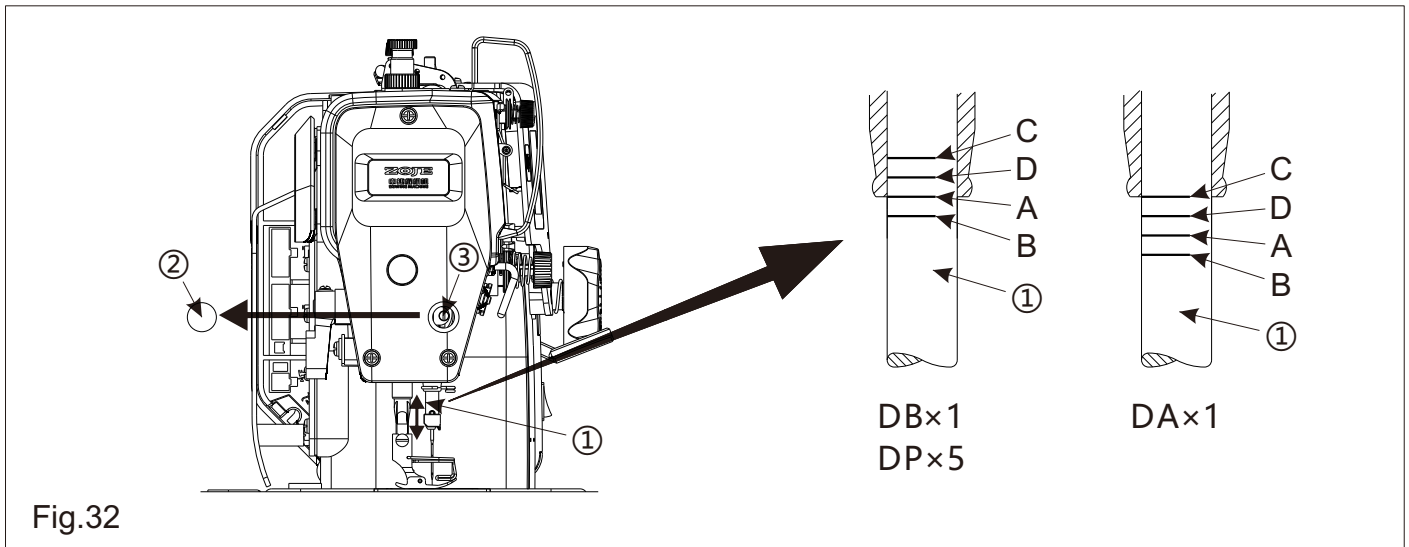


Fig.32

## 25 Adjust the Height of the Needle Bar(Fig. 3 2)

1. Turn the machine pulley to set the needle bar ① to its lowest position.
2. Remove the rubber cap ② from the face plate.
3. Unscrewing the connecting screw ③ of needle bar, through moving the needle bar ① up and down to adjust, when using needle DB X1 and DPX5, the mark A on the needle bar should be ① match to the bottom of needle bar lower bushing; When using DAX1, the mark C on needle bar ① should match to the bottom of needle bar lower bushing.
4. Tighten the screw ③ in compression rod guide frame and assembly the rubber plug ② after adjusting.



### Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted

## 26 Adjust the Synchronization of the needle and hook(Fig. 33)

1. Unscrewing the two positioning screw ① of hook.
2. Rotating the hand wheel to make needle bar ② lift from the lowest place, when using needle DBX1 and DPX5, the mark B on needle bar ② should match to the bottom of lower needle bar ② bushing, when using needle DAX1, the mark D on needle bar ② should match to the bottom of lower needle bar ② bushing.
3. Moving the hook to match the hook point ③ with center of needle ④. Meantime, make the space between the hook point ③ and needle ④ 0~0.05mm.
4. Tightening two positioning screw ① of hook.



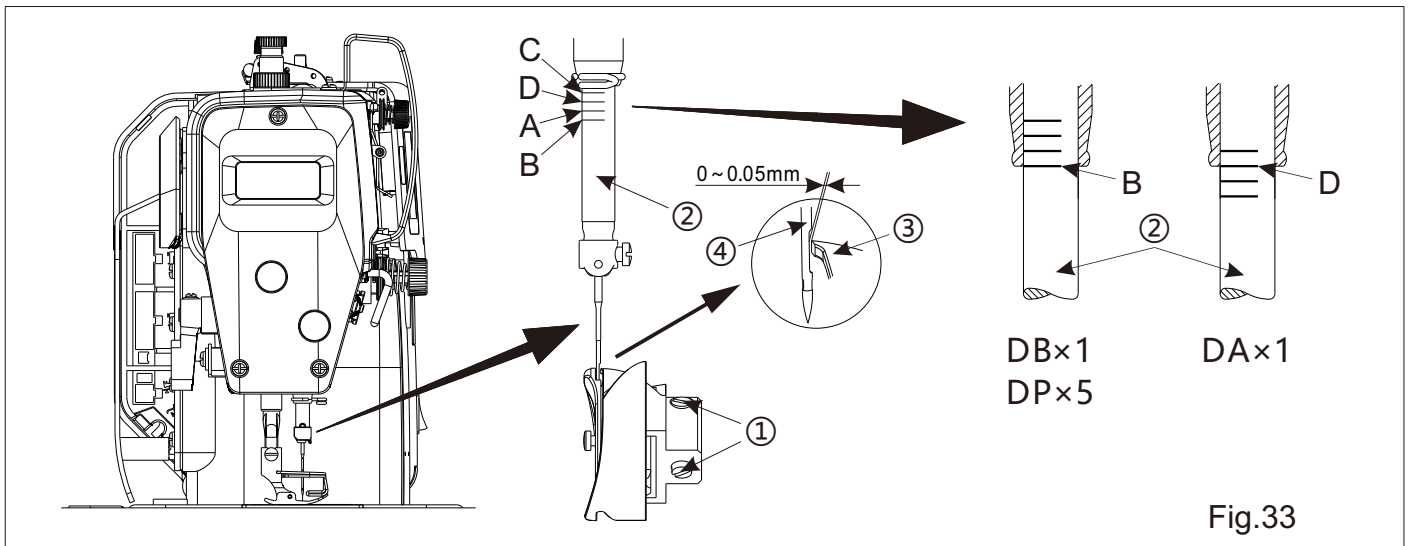
**Caution:**

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.If the clearance between notch on needle and thread hooking tip of rotating hook is too small, rotating hook tip may be worn; if the clearance is excessive, skipped stitch may take place.

3.It may lead to needle breakage if over-rotating the eccentric wheel towards A direction.



## 27 Adjust the Synchronization of the Needle and Feed(Fig. 34)

- 1.Remove the rubber plug ①.
- 2.Loosen the two set screws ③ of the feedeccentric cam ②, and then turn the feed eccentric cam ② slightly to adjust the timing: If make the needle sooner than material feeding, rotate toward A direction. If make the needle later than material feeding, rotate toward B direction. ( The standard of adjustment is when the feed dog falling from the highest to the surface of needle plate, the top of the needle and needle plate should at the same level).
- 3.Tightening two positioning screw ③ and assembly the rubber plug ① after adjusting.

**Caution:**



1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.If the feed lifting eccentric cam is turned too far in the direction A, it may cause the needle to break.

3.To prevent material slippage from occurring,retard the needle timing.

4.To improve thread tightening, advance the needle timing.

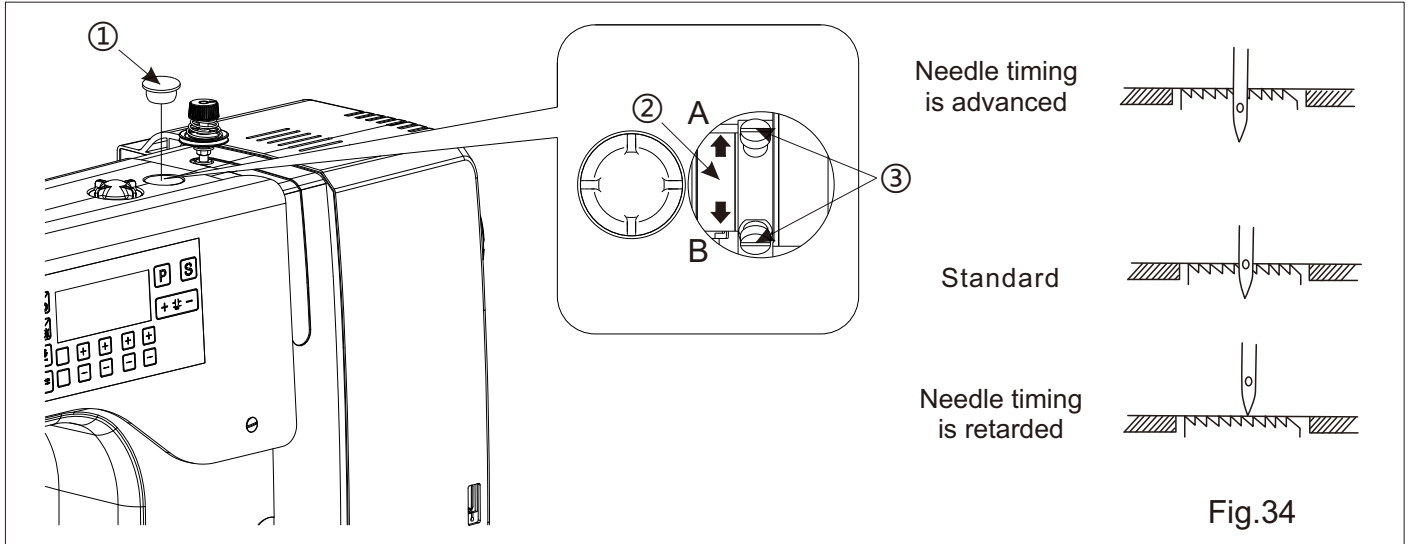


Fig.34

## 28 Adjustment of the Height of feed dog(Fig. 3 5)

1.Turn the pulley until the feed dog rises to the highest position.

2.Turn over the sewing machine head on the supporting bar.

3. Unscrewing the tightened screw ① in the feed lifting crank ②.

4.Rotating the feed lifting crank ② to make adjustment:

the feed dog will be higher when the feed lifting crank ② is turn towards A direction;

turn towards B direction the feed dog will be lower.(When the feed dog in the highest position, the standard height of the type of medium-heavy machine is 0.8~1.0mm and standard height of the heavy duty machine is 1.1~1.3mm.

5.Remember to tighten the tightening screw ① in the feed lifting crank ② after adjusting.

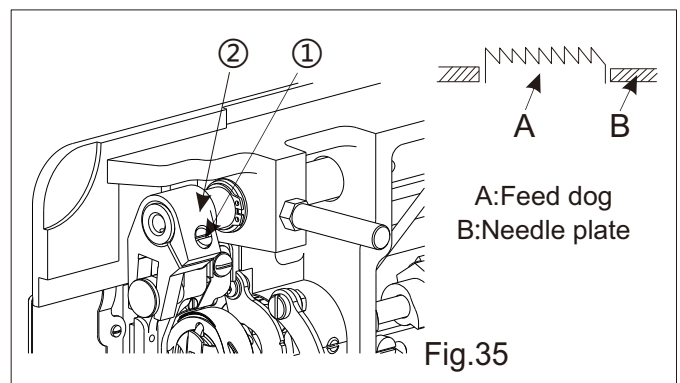


Fig.35



**Caution:**

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

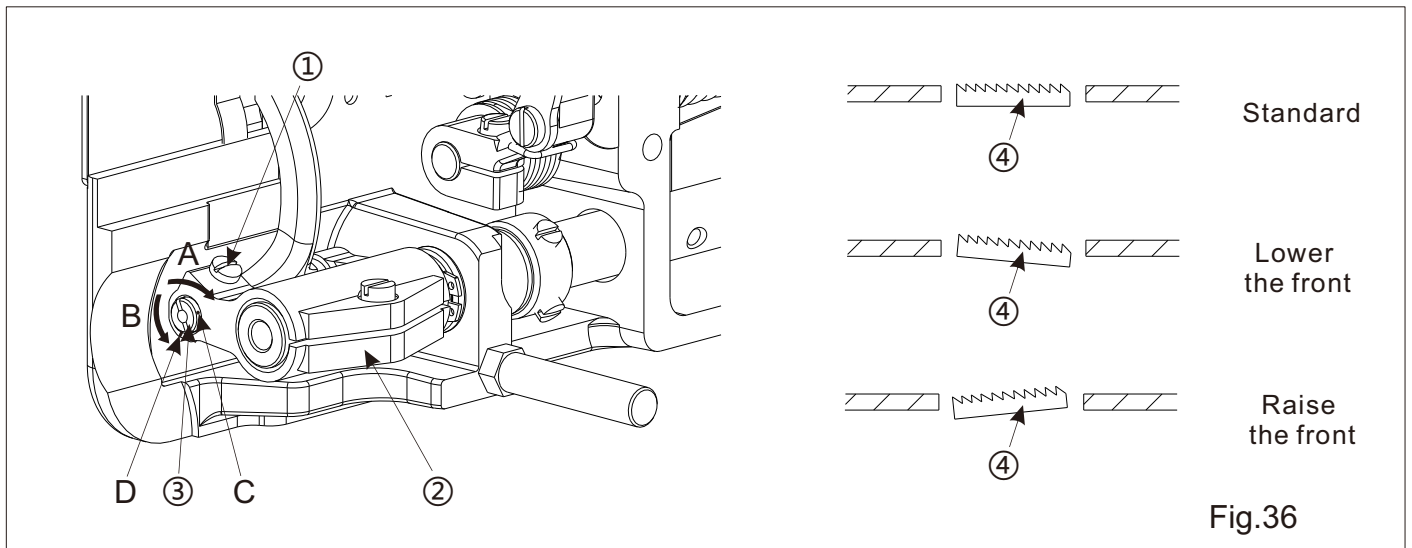


Fig.36

## 29 Adjust the lean of feed dog(Fig. 3 6)

- 1.Turn the pulley until the feed dog④ rises to the highest position.
- 2.Turn over the sewing machine head on the supporting bar.
- 3.Unscrewing the tightening screw① in the teeth pedestal ②.
- 4.Adjust the eccentric pin ③ by screw driver:  
Fall front site of tooth feed when moving the eccentric pin ③ towards A, and raising it when move towards B.(When raising the tooth feed to the highest position,  
The standard lean position of feed dog is that mark C on eccentric pin③ should be at the same level D with mark on the teeth pedestal② and the feed dog should be parallel with needle plate.)
- 5.Remember to tighten the tightening screw① in the teeth pedestal ② after adjusting



Caution:

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.

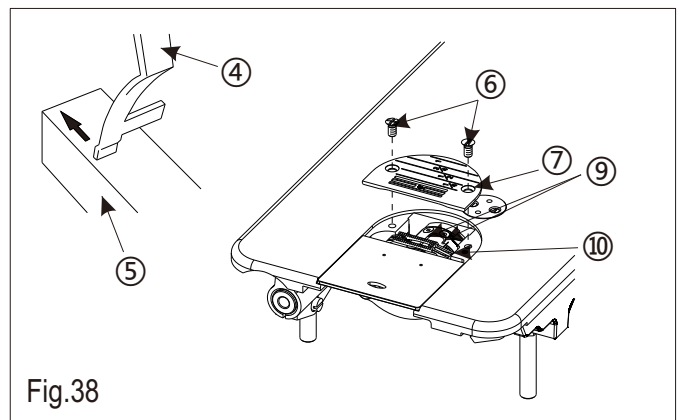
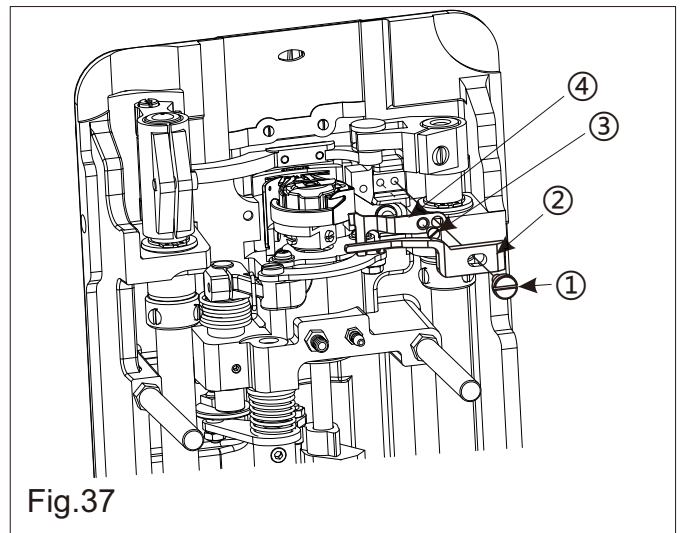


2.In order to prevent puckering,lower the front of the feed dog.

3.In order to prevent the material from slipping,raise the front of the feed dog.

4.The height of the feed dog will change after the angle has been adjusted,so it will be necessary to re-adjust the height of the feed dog.

## 30 Replacing the fixed knife and movable knife (Fig. 37, Fig. 38, Fig. 39)



Caution:

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.Carry out the above steps in reverse to install the fixed knife.

## 2.Grinding the stationary trimmer:

If the cutting performance deteriorates,Sharpen the fixed knife ④ on a whetstone as Shown in the illustration ⑤.

## 3.Removing the movable trimmer

- 1) Remove the needle.
- 2) Uplift the presser foot using foot lifting lever.
- 3) Screw off screw⑥ (2 pieces), and take out Clearance hole plate ASM.⑦
- 4) Turn the handwheel to allow the needle bar ⑧ to reach its highest position.
- 5) Lay down the sewing machine head.
- 6) Push thread-trimming driving crank lever⑨ in direction of arrow till the position of screw ⑨ is exposed.
- 7) Screw off screw ⑨ (2 pieces), and take out movable trimmer ⑩.

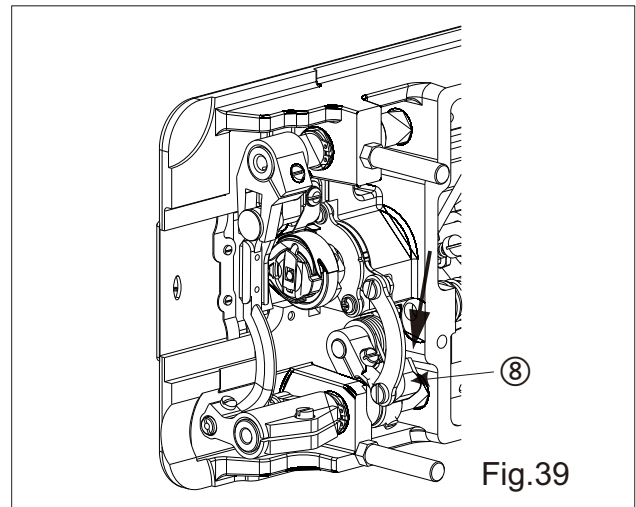


Fig.39



### Caution:

1.To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



2.Carry out the above steps in reverse to install the movable knife.

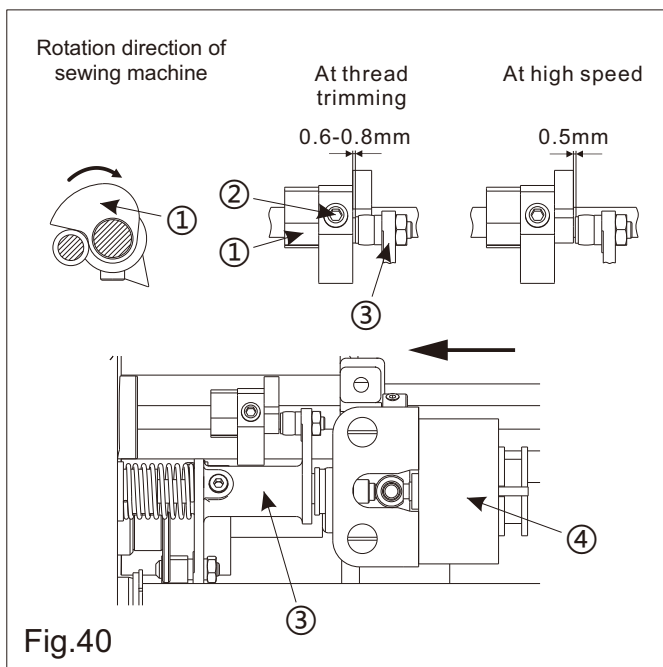


Fig.40

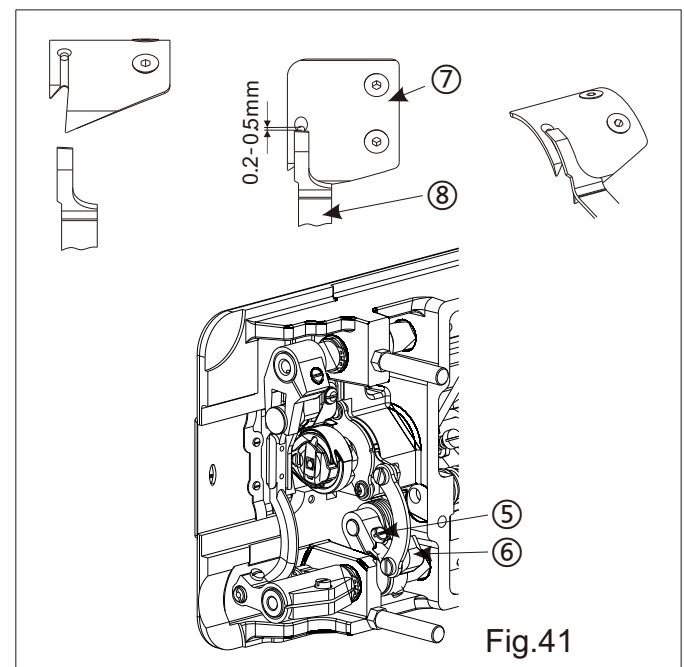


Fig.41

# 31 Adjusting the Thread-trimming Device(Fig. 40, Fig. 41)

1. Adjusting the position of thread-trimming cam

1) Rotating the hand wheel to raise the needle bar 5mm from the lowest place.

2) To press the core in trimming electromagnet ④ with your hands by arrow direction, allowing the ball of the trimming cam crank ③ press into the cavity in trimming cam ①. And the place of trimming cam ① remains the gap which between the end face of trimming cam ① and the left side on the ball is 0.6~0.8mm.

3) With the 25kgf.cm force to tighten the two screws ② from trimming cam .

4) When the trimming cam crank ③ back to its original place, please confirm that the gap between the right side on the trimming cam ① and the left side on the ball of the trimming cam crank ③ is 0.5mm.



Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



3. Adjusting the positions of movable trimmer and stationary trimmer:

Hold down electromagnet core so that the balls in slide block assembly ③ is pressed into the recess on thread-trimming cam ①.

Turn the upper wheel, and the front end stationary trimmer ⑧ and cutting edge of movable trimmer ⑦ shall be engaged for 0.2~0.5mm when thread-trimming driving crank lever ⑥ drives movable trimmer ⑦ to perform thread-trimming action.

If no engagement is achieved, unscrew screw ⑤ and move thread-trimming driving crank lever ⑥ to engage the front end stationary trimmer ⑧ and cutting edge of movable trimmer ⑦.

The adjusted positions of movable trimmer ⑦ and stationary trimmer ⑧ must ensure that cotton thread 203 can be snipped when manual thread-trimming is conducted.



Caution:

1. To prevent the unexpected startup of sewing machine, trim off the power supply before the operation is conducted.



# 32 Maintenance(Fig. 42, Fig. 43, Fig. 44)

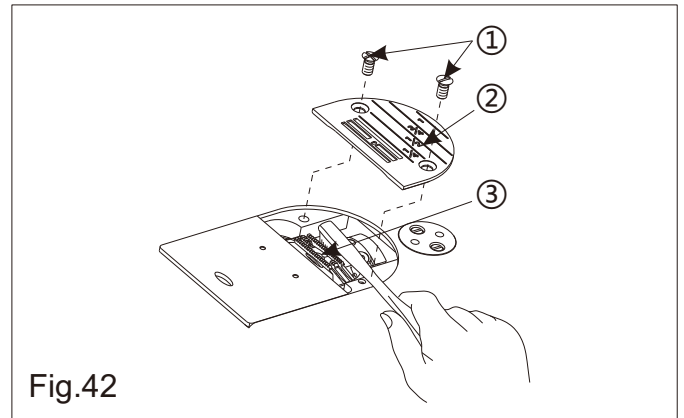


Fig.42

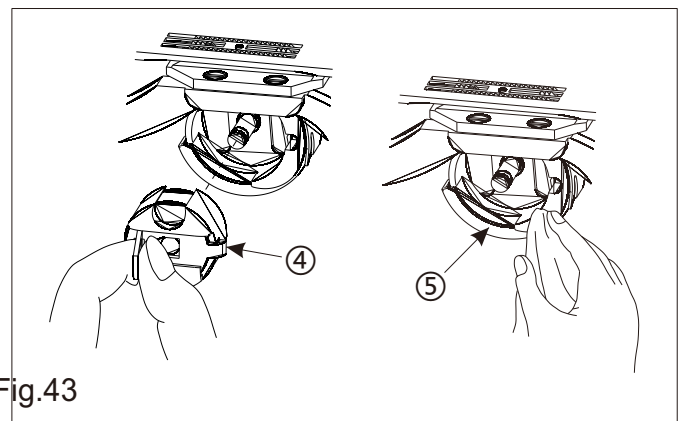


Fig.43

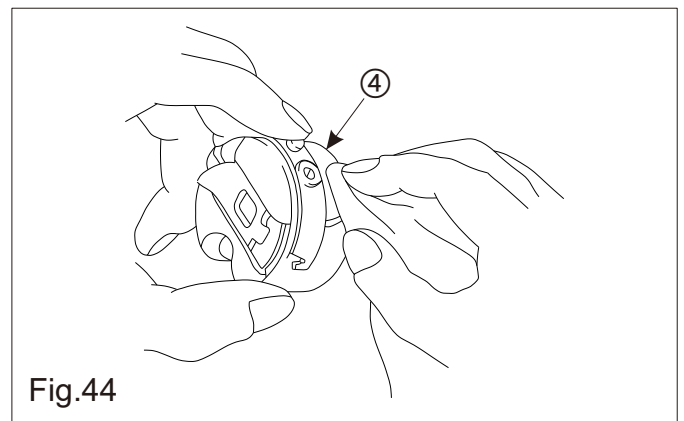


Fig.44

The following cleaning operations should be carried out each day in order to maintain the performance of this machine and to ensure a long service life.

## 3.Ensuring the oil amount in gear case:

Confirm that the top of oil amount indicating rod is between the upper engraved marker line and the lower engraved marker line of the oil amount indicating window.(For the details, refer to “6 Lubrication of machine”)

## 2.Cleaning

- 1)Raise the presser foot.
- 2)Remove the two screws ①,and then remove the needle plate ②.
- 3)Remove dust adhered to feed dog ③ and thread trimmer unit with a soft brush or cloth.
- 4)Install the needle plate ② with the two screws ①.
- 5)Turn over the sewing machine down on the supporting bar of head.



6) Remove the bobbin case ④.

7) Wipe off any dust from the rotary hook ⑤ with a soft cloth, and check that there is no damage to the rotary hook ⑤. Wipe out with the cloth dust and hook oil drained in the under cover near the hook.

- a) Remove the bobbin from the bobbin case ④ and clean the bobbin case ④ with a cloth.
- b) Insert the bobbin into the bobbin case ④, and then place the bobbin case ④ back into the machine.

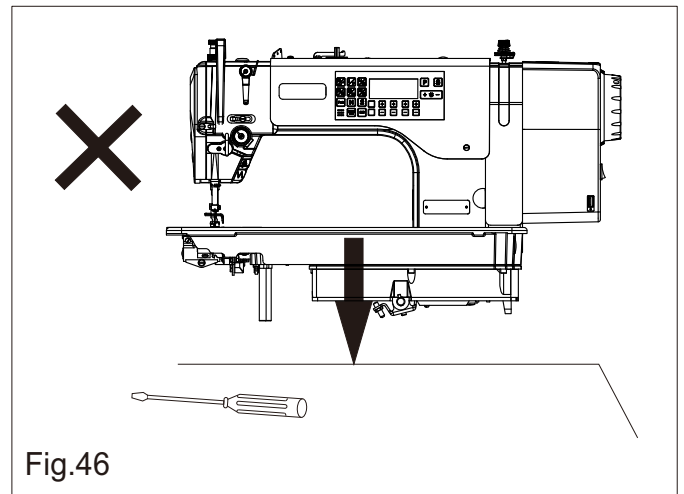
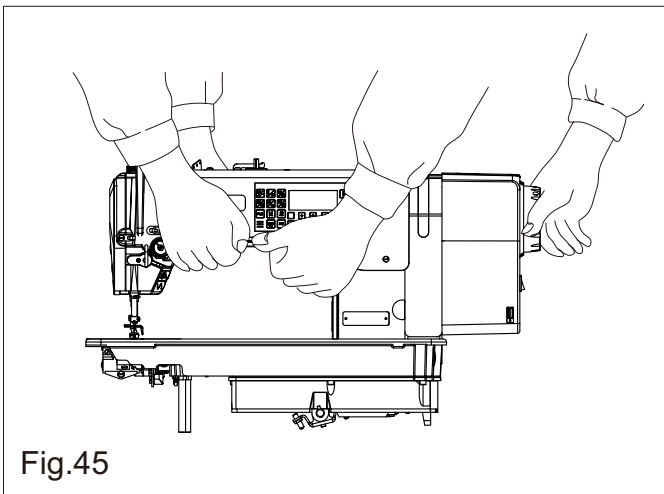
## 3.3 Carrying and Placing of the Sewing Machine (Fig. 45, Fig. 46)

### 1. Carrying of the machine





It needs to hold tight frame body of the sewing machine by two people as the picture shows.

### 2. Attention for placing

Must be put in the plain site. Clear the screwdriver or something embossment out of the placing site.



**Ask your supplier about:**

	<p><b>Machine needle with tip adjusted to sewed material:</b></p> <p>R – round, standard tip for most fabrics SPI – very slim, acute tip, for a precise piercing of densely woven materials SES – light ball point, especially suitable for jersey, tricot, elastic woven materials SUK – medium ball point, best corsetry, jeans, coarse knitted fabrics and also elastic materials.</p>
	<p><b>SPIRIT 2</b></p> <p>Non-toxic, non-staining, odourless, colourless oil, neutral for plastics. Perfect for lubricating sewing machines (lockstitch, overlock, interlock, etc.), needles, knitting cams and other precise mechanism in the textile industry.</p>
	<p><b>SPIRIT 37</b></p> <p>Silicon fluid modified especially for textile industry. Used for preparation of sewing thread and yarn, lubrication of knitting machines needles. Colourless and odourless. Applied with brush, sprinkle or through immersion.</p>
	<p><b>TWE6</b></p> <p>Tweezers</p>

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# CE DECLARATION OF CONFORMITY

Distributor:

Strima Sp. z o.o.  
Swadzim, st. Poznańska 54  
62-080 Tarnowo Podgórne, Polska

We declare, that the following product:

**Lockstitch sewing machine**

Model: **Art Auto 2**  
(A8100-D4-W/02)

which this declaration relates, complies with the following directives:

Machine directive 2006/42/WE

Low voltage directive 2006/95/WE

Harmonized norm used: EN 60204-1

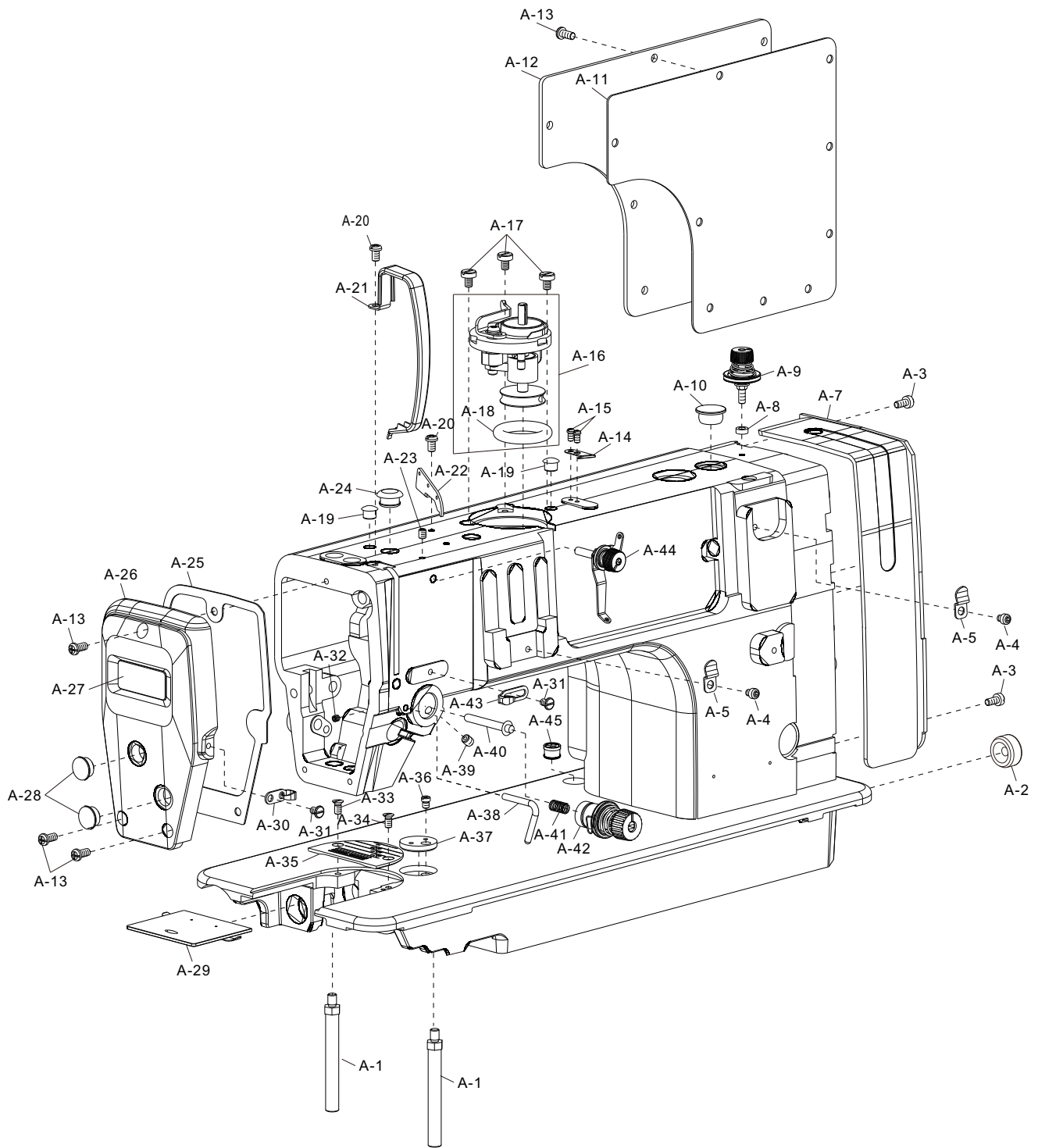
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# A

## Machine Frame & Cover Miscellaneous Components



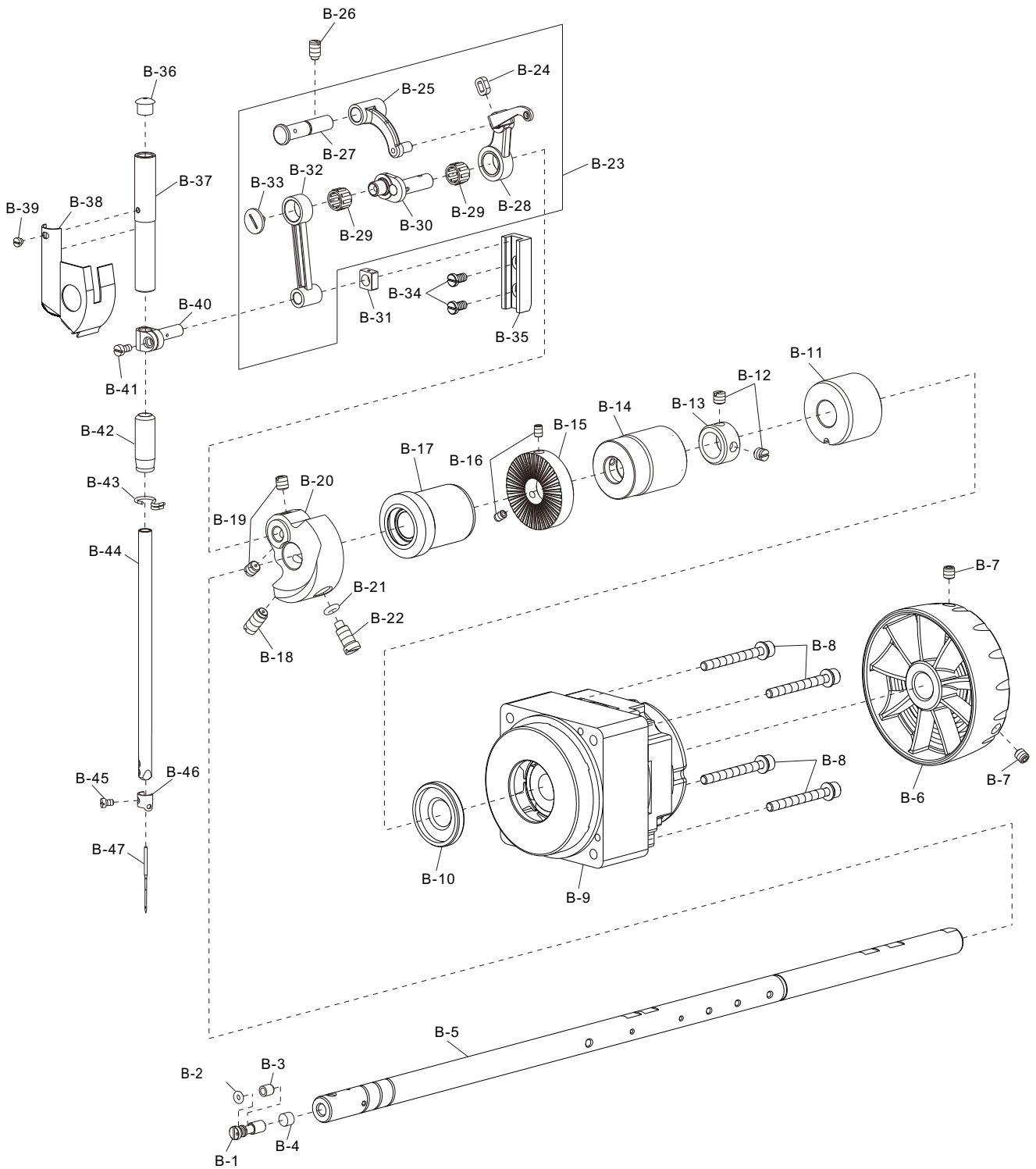
# A

## Machine Frame & Cover Miscellaneous Components

Ref. No.	Part No.	Name of part	QTY	Remark
A-1	10008871	Bed screw stud	2	
A-2	10008941	Rubber plug	1	
A-3	10010066	Screw SM11/64"×40	2	
A-4	10003382	Screw SM11/64"×40	2	
A-5	10062047	Slide buckle	2	
A-7	10067450	Plastic plate	1	
A-8	10062565	Washer	1	
A-9	10062049	Bobbin thread tension ASM	1	
A-10	10009576	Rubber plug	1	
A-11	10066540	Side plate gasket	1	
A-12	20025957	Side plate	1	
A-13	10008972	Screw SM3/16"×28	12	
A-14	10011149	Thread cutter	1	
A-15	10050423	Screw SM9/64"×40	2	
A-16	10031086	Bobbin wider ASM.	1	
A-17	10004380	Screw SM3/16"×32	3	
A-18	10008773	Rubber ring	1	
A-19	10008943	Rubber ring	2	
A-20	10008934	Screw SM3/16"×28	2	
A-21	10014082	Thread take-up lever cover	1	
A-22	10052992	Thread tension guide	1	
A-23	10041529	Screw SM3/16"×28	1	
A-24	10008942	Rubber ring	1	
A-25	10062031	Face plate gasket	1	
A-26	20024053	Face plate	1	
A-27	*	Decorative board	1	
A-28	10008977	Rubber ring	2	
A-29	10013706	Push plate ASM.	1	
A-30	10008937	Arm thread guide left	1	
A-31	10008973	Screw SM11/64"×40	2	
A-32	10009074	Screw M4	1	
A-33	10012463	Screw SM11/64"×40	1	
A-34	10009005	Screw SM11/64"×40	1	
A-35	10060708	Needle plate	1	
A-35	10014459	Needle plate	1	-5
A-36	10004374	Screw SM11/64"×40	2	
A-37	10068607	Ruler plate	1	
A-38	10038945	Presser bar thread guide	1	
A-39	10006264	Screw SM15/64"×28	1	
A-40	10062374	Tension release supporting pin	1	
A-41	10050348	Spring	1	
A-42	10062050	Thread take-up device	1	
A-43	10008940	Arm thread guide right	1	
A-44	10062051	Top thread tension ASM	1	
A-45	10060563	Rubber plug	1	

# B

## Main Shaft & Thread Take-up Cover Components



# B

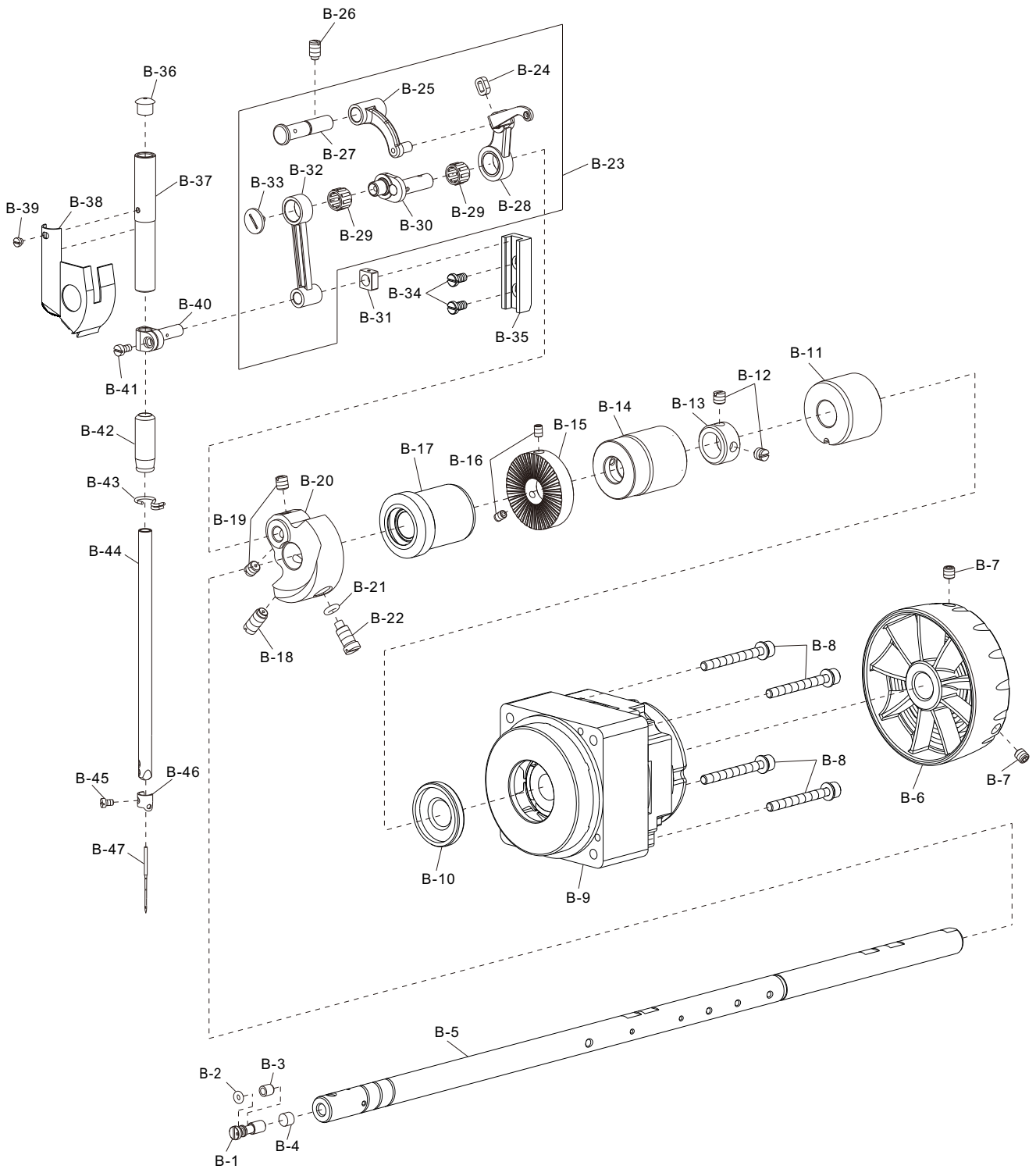
## Main Shaft & Thread Take-up Cover Components

Ref. No.	Part No.	Name of part	QTY	Remark
B-1	10010504	Adjusting pin	1	
B-2	10010538	O-ring 6.46×1.78	1	
B-3	10010540	Sleeve of adjusting pin	1	
B-4	10066835	Roler felt	1	
B-5	10067799	Main shaft	1	
B-6	20023713	Head wheel	1	
B-7	10011232	Screw M6×6	2	
B-8	10059025	Screw M5 ASM.	4	
B-9	10074227	ASM. Motor (rep. for 10068155)	1	
B-10	10058049	Oil seal	1	
B-11	10066836	Shaft sleeve	1	
B-12	10005020	Screw SM1/4"×40	2	
B-13	10010542	Thrust collar	1	
B-14	10007239	Shaft sleeve	1	
B-15	10004472	Driving wheel	1	
B-16	10012062	Screw SM11/64"×40	2	
B-17	10055615	Shaft sleeve	1	
B-18	10010082	Screw SM9/32"×28	1	
B-19	10010065	Screw SM1/4"×40	2	
B-20	10012203	Crank	1	
B-20	10012858	Crank	1	-5/H
B-21	10010534	O-ring 9.2×2.4	1	
B-22	10010545	Screw	1	
B-23	20013230	Thread take-up lever ASM.	1	
B-23	20014717	Thread take-up lever ASM.	1	-5
B-23	20016366	Thread take-up lever ASM.	1	H
B-24	10010539	Oil resistant cover	1	
B-25	10010535	Connecting rod	1	
B-25	10005936	Connecting rod	1	H
B-26	10010083	Screw SM15/64"×28	1	
B-27	20019236	Pin ASM.	1	
B-28	10038474	Thread take-up lever	1	
B-28	10005939	Thread take-up lever	1	H
B-29	10014107	Needle bearing K8×12×7.8	2	
B-30	10004144	Crank ASM.	1	
B-30	10005937	Crank ASM.	1	-5/H
B-31	10053559	Sliding block	1	
B-32	10010592	Connecting rod	1	
B-33	10010537	Screw	1	
B-34	10043360	Screw	1	
B-35	10053558	Slide guide	1	
B-36	10010587	Rubber plug	1	
B-37	10011063	Shaft sleeve	1	
B-38	10062045	ARM oil shield ASM.	1	
B-39	10005558	Screw SM1/8"×44	1	

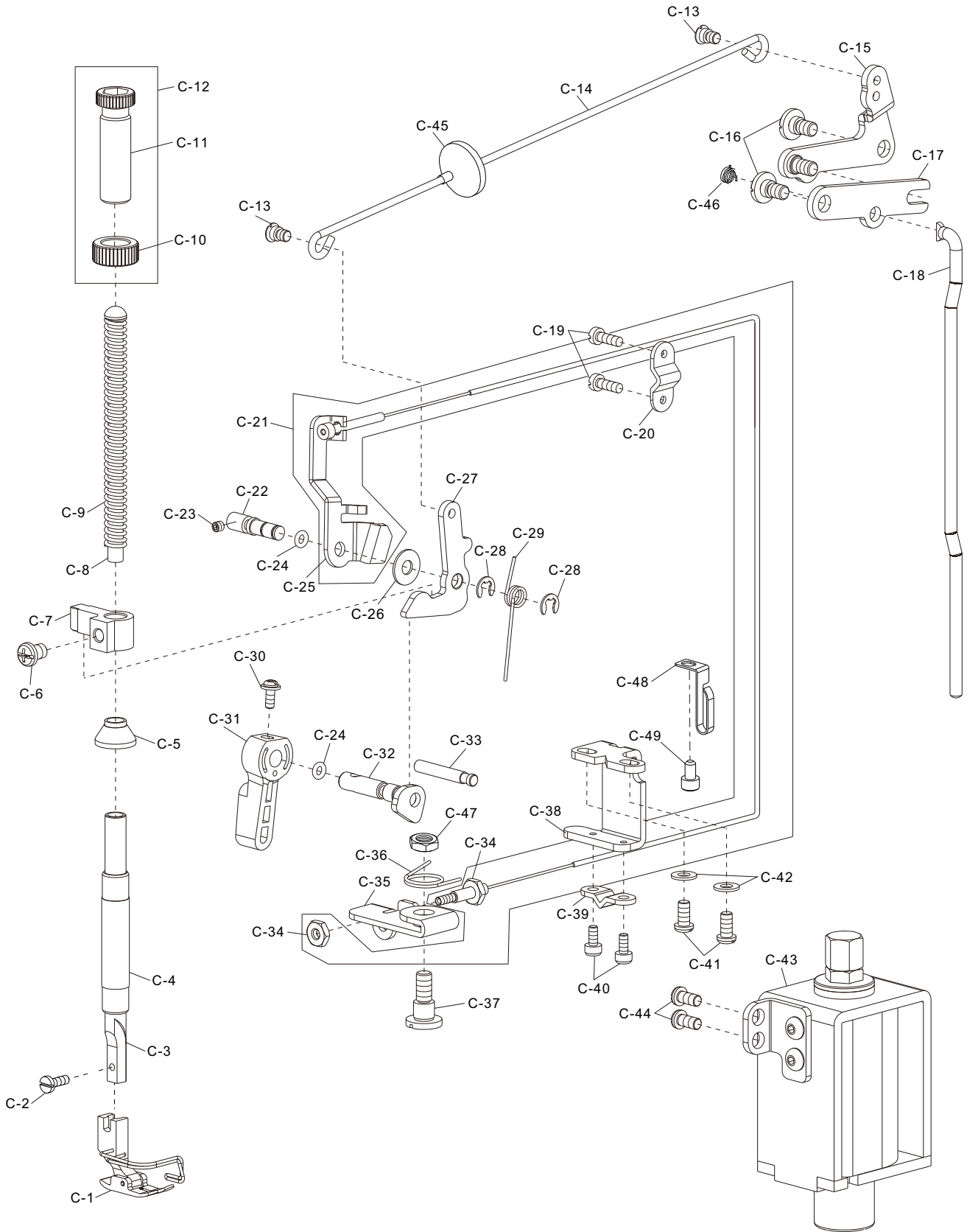


# B

## Main Shaft & Thread Take-up Cover Components







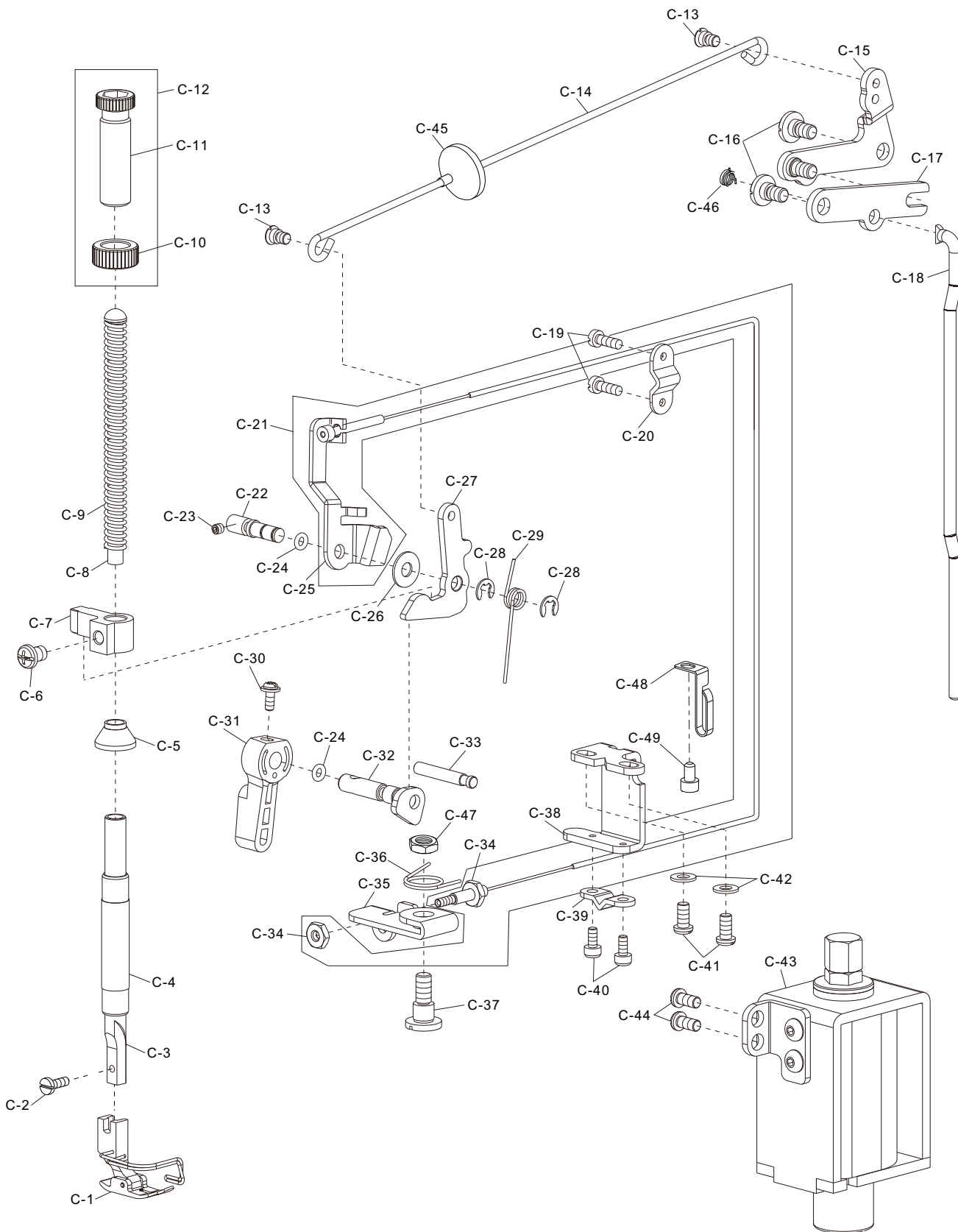


## Hang Lifter & Tension Release Components

Ref. No.	Part No.		Name of part	QTY	Remark
C-1	10052532		Presser foot ASM.	1	
C-1	10005982		Presser foot ASM.	1	-5/H
C-2	10010650		Screw SM9/64"×40	1	
C-3	10010646		Presser bar	1	
C-4	10014118		Shaft sleeve	1	
C-4	10005915		Shaft sleeve	1	-5/H
C-5	10066598		Oil protector cover	1	
C-6	10000325		Screw M6×8	1	
C-7	10039365		Presser guide bar bracket	1	
C-8	10004439		Presser guide bar	1	
C-9	10004473		Spring	1	
C-10	10062022		Nut	1	
C-11	10062021		Screw	1	
C-12	10062052		Screw ASM.	1	
C-13	10010651		Screw SM3/16"×32	2	
C-14	10061689		Lifting lever connecting rod	1	
C-15	10057556		Lifting lever link components ASM.	1	
C-16	10010652		Screw	2	
C-17	10057557		Lifting lever connecting plate	1	
C-18	10057559		Connecting rod vertical	1	
C-19	10009037		Screw M4×12	2	
C-20	10039378		Platen	1	
C-21	10069046		Foot lifter pull thread components ASM.	1	
C-22	10039373		Pin	1	
C-23	10009074		Screw M4×4	1	
C-24	10010027		O-ring 3.68×1.78	2	
C-25	10039372		Tension release plate	1	
C-26	10050590		Snap ring	1	
C-27	10050188		Lifting lever	1	
C-28	10013038		Closing ring 5×0.8	2	
C-29	10052046		Spring	1	
C-30	10010016		Screw SM9/64"×40	1	
C-31	10062023		Hand lifter	1	
C-32	10050190		Hand lifter CAM ASM.	1	
C-33	10039374		Pin	1	
C-34	10005834		Nut SM3/16"×32	2	
C-35	10008860		Loosing plate	1	
C-36	10008834		Spring	1	
C-37	10012467		Screw	1	
C-38	10069144		Loosing line plate	1	
C-39	10013615		Fixing shutter	1	
C-40	10006624		Screw SM9/64"×40	2	
C-41	10008972		Screw SM3/16"×28	2	
C-42	10011653		Washer 5.2×10.5×1	2	
C-43	10068482		Presser foot lifting solenoid	1	
C-44	10000134		Screw M5×10	4	
C-45	10053351		Oil shield	1	

# C

## Hang Lifter & Tension Release Components

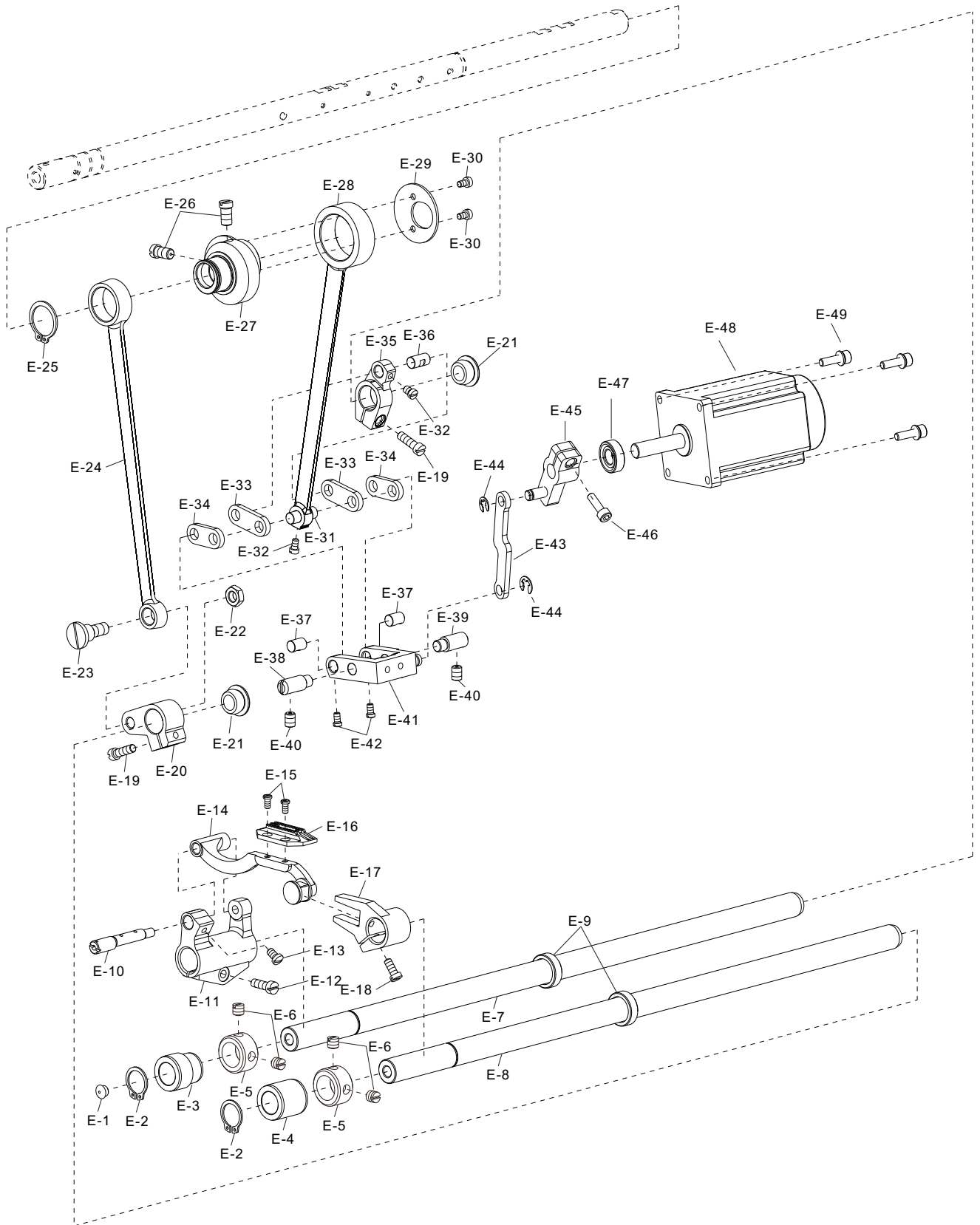








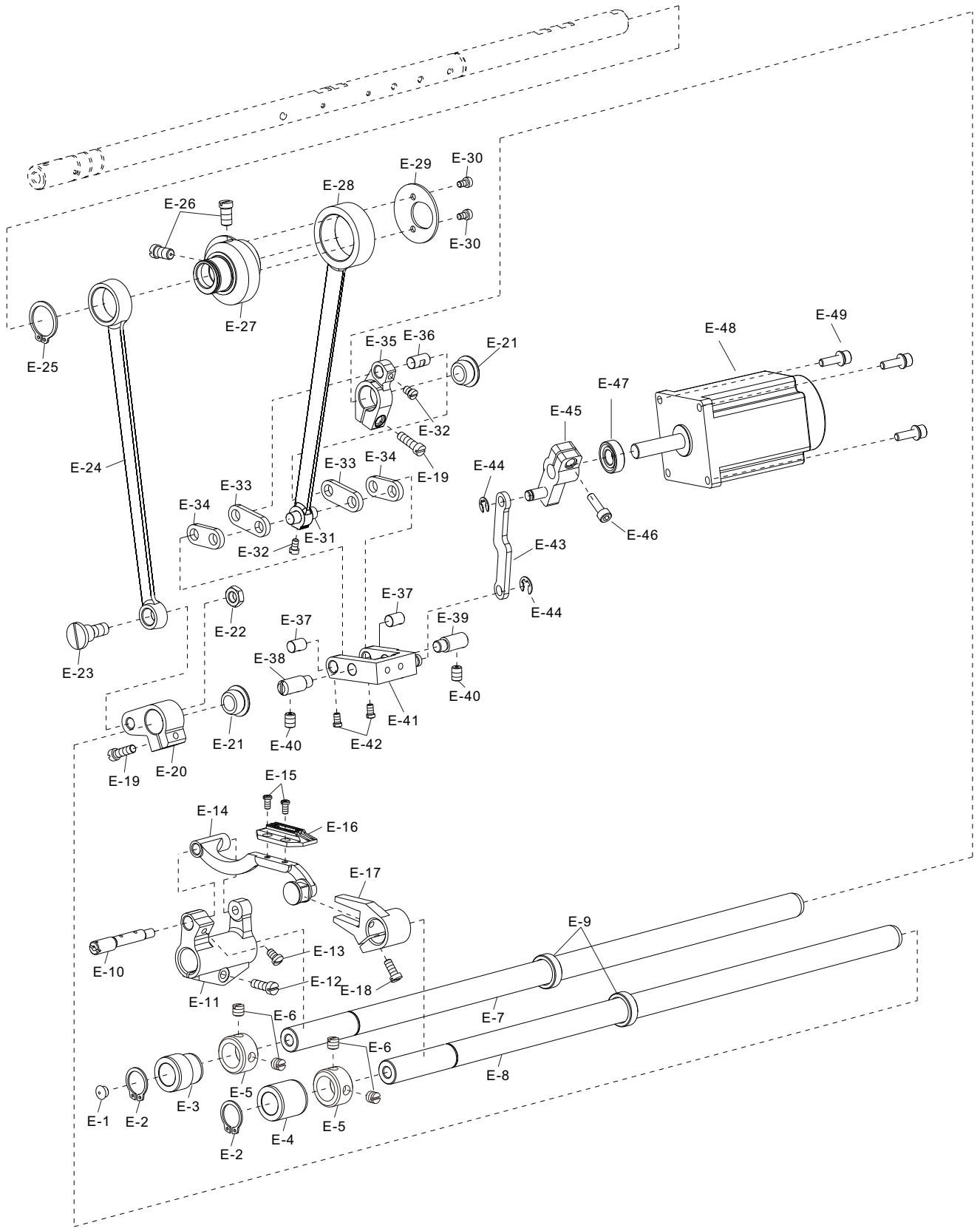




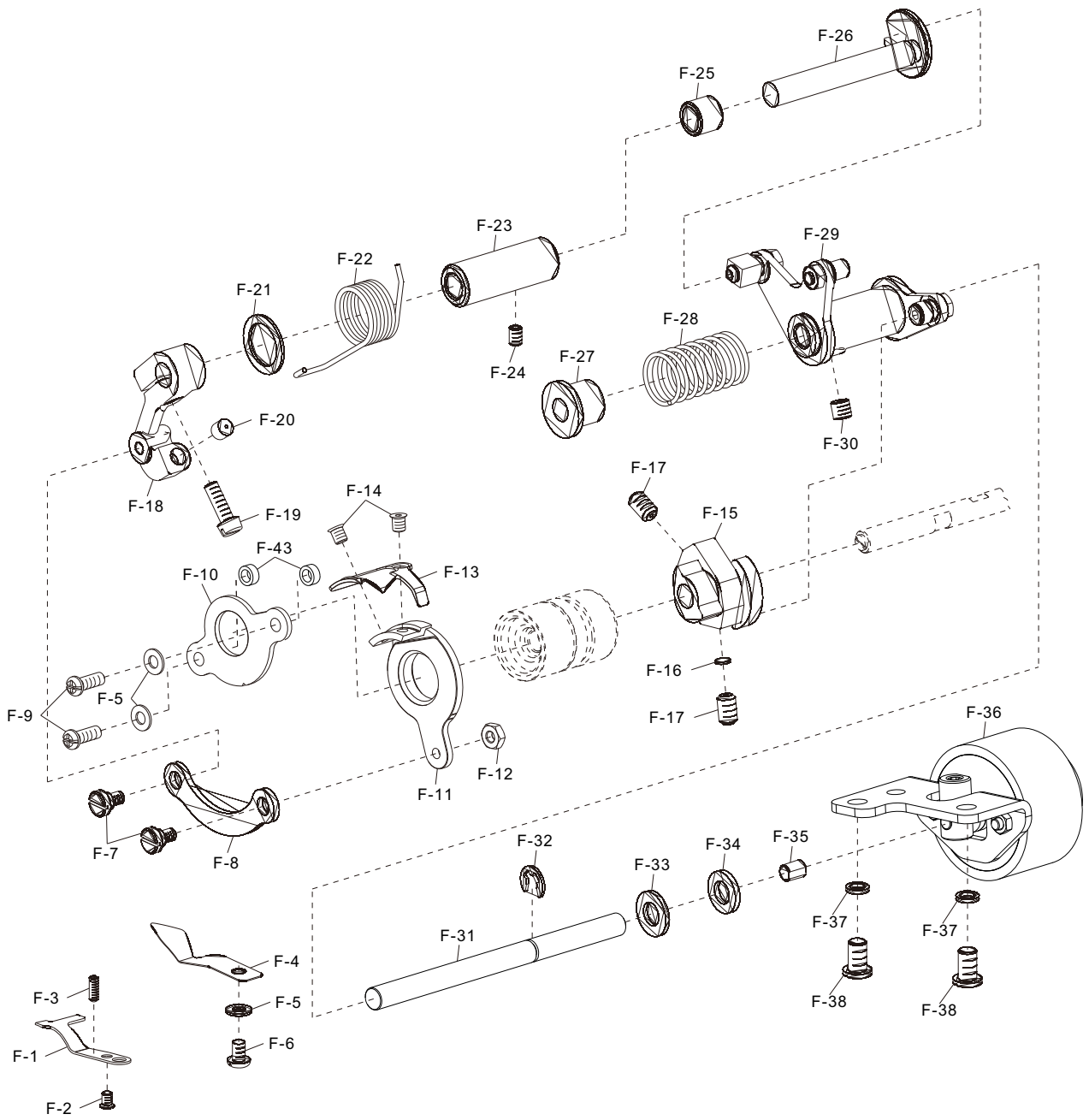
# E

## Feed Mechanism Components

Ref. No.	Part No.	Name of part	QTY	Remark
E-1	10069145	Rubber plug	1	
E-2	10010090	Closing ring 13.8×1	2	
E-3	10068365	Shaft sleeve	1	
E-4	10068366	Shaft sleeve	1	
E-5	10010542	Thrust collar	2	
E-6	10038073	Screw SM1/4"×40	4	
E-7	10068651	Feed driving shaft	1	
E-8	10068650	Feed driving shaft	1	
E-9	10012536	Oil seal 14 72×22×7	2	
E-10	10004440	Pin	1	
E-11	10004474	Feed bar driving crank	1	
E-11	20019012	Feed bar ASM.	1	
E-12	10004993	Screw SM3/16"×28	1	
E-13	10010074	Screw SM11/64"×40	1	
E-14	10067264	Feed bar ASM.	1	
E-15	10010099	Screw SM1/8"×44	2	
E-16	10052531	Feed dog	1	
	10007322	Feed dog	1	-5
E-17	10030200	Crank	1	
E-18	10004628	Screw SM11/64"×40	1	
E-19	10010095	Screw SM3/16"×28	2	
E-20	10010086	Crank	1	
E-21	10009576	Rubber plug	2	
E-22	10004475	Nut SM9/32"×28	1	
E-23	10010091	Screw	1	
E-24	10010084	Connecting rod	1	
E-25	10010089	Closing ring 18.5×1.2	1	
E-26	10010092	Screw SM1/4"×40	2	
E-27	10010115	Feed drive eccentric cam	1	
E-28	10010072	Connecting rod	1	
E-29	10010098	Thrust cover	1	
E-30	10010643	Screw SM9/64"×40	2	
E-31	10010069	Pin	1	
E-32	10010071	Screw SM9/64"×40	2	
E-33	10010068	Connecting plate	2	
E-34	10010075	Connecting plate	2	
E-35	10010076	Crank	1	
E-36	10010096	Pin	1	
E-37	10010087	Pin	2	
E-38	10010102	Pin	1	
E-39	10058783	Pin	1	
E-40	10010678	Screw SM15/64"×28	2	



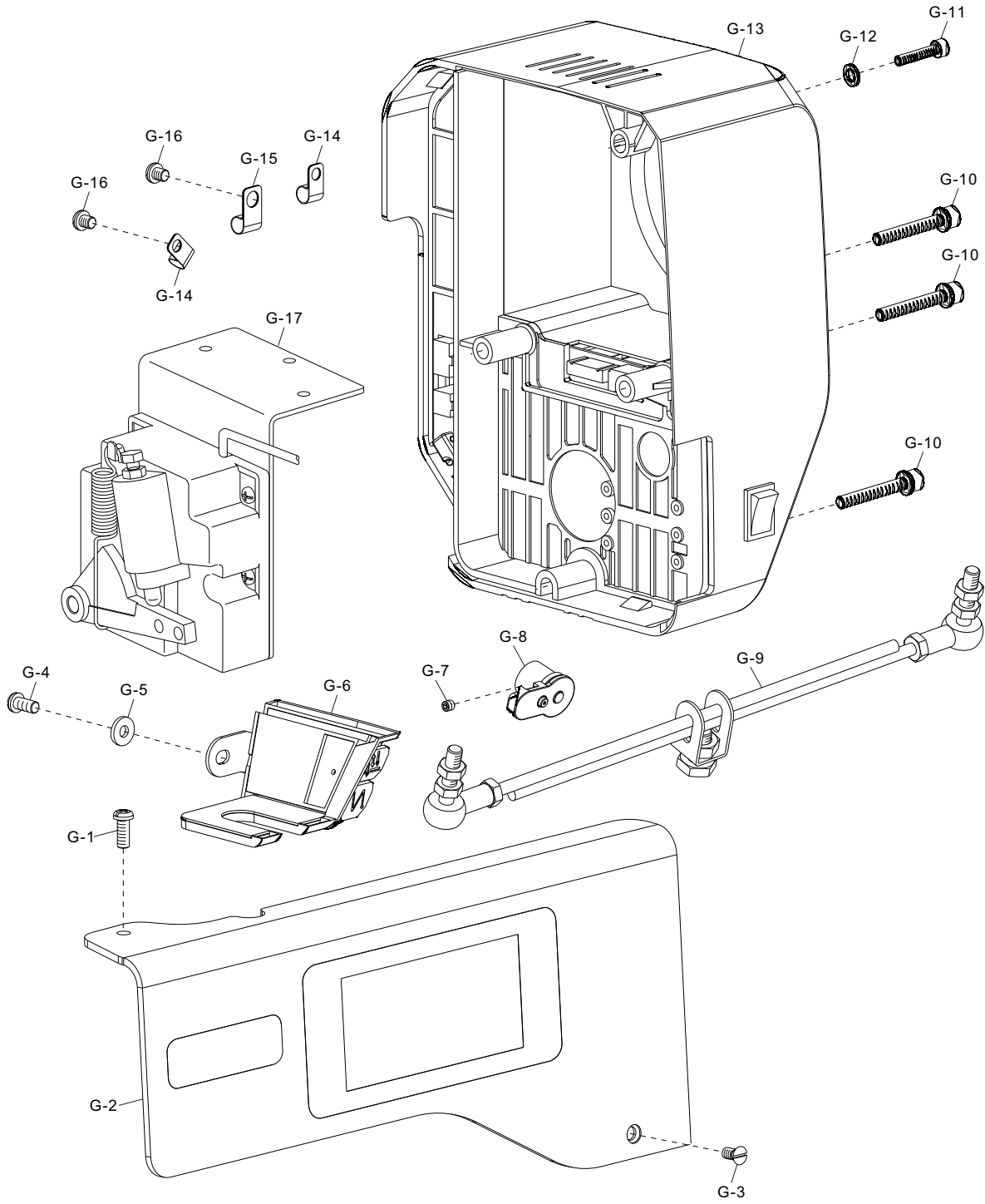




# F

## Thread trimmer Components

Ref. No.	Part No.		Name of part	QTY	Remark
F-1	10011421		Fixed knife	1	
F-2	10011422		Screw SM9/64"×40	1	
F-3	10024496		Screw SM1/8"×40	1	
F-4	10058067		Dispart	1	
F-4	10062533		Dispart	1	H
F-5	10013154		Washer 9×4.5×0.8	3	
F-6	10014474		Screw SM11/64"×40	1	
F-7	10011514		Screw SM11/64"×40	2	
F-8	10031612		Knife shaft crack rod	1	
F-9	10010900		Screw SM11/64"×40	2	
F-10	10069005		Knife holder	1	
F-11	10004640		Round knife bracket	1	
F-12	10011578		Nut SM11/64"×40	1	
F-13	10011494		Round knife	1	
F-13	10030280		Round knife	1	-5
F-14	10011588		Screw SM11/64"×40	2	
F-15	10010736		Thread trimmer cam	1	
F-16	10023739		Cam collar	1	
F-17	10013465		Screw SM1/4"×40	2	
F-18	10058043		Trimming crank	1	
F-19	10008863		Screw SM3/16"×32	1	
F-20	10011580		Block	1	
F-21	10008865		Washer 15.3×21×1	1	
F-22	10011649		Spring	1	
F-23	10012454		Shaft sleeve	1	
F-24	10012062		Screw SM11/64"×40	1	
F-25	10011630		Short bushing	1	
F-26	10008866		Trimming crank shaft	1	
F-27	10014196		Spring cover	1	
F-28	10008812		Spring	1	
F-29	10011686		Trimming cam crank ASM.	1	
F-30	10008862		Screw SM1/4"×40	1	
F-31	10068364		Trimming shaft	1	
F-32	10009654		Closing ring 6×1	1	
F-33	10003031		Washer 8.4×16×1.6	1	
F-34	10011650		Washer 8.2×15×2	1	
F-35	10050266		Sound deadening plug	1	
F-36	10068360		Thread trimmer solenoid ASM.	1	
F-37	10003077		Washer 6	2	
F-38	10011605		Screw SM1/4"×28	2	
F-43	10069004		Guide sleeve	2	

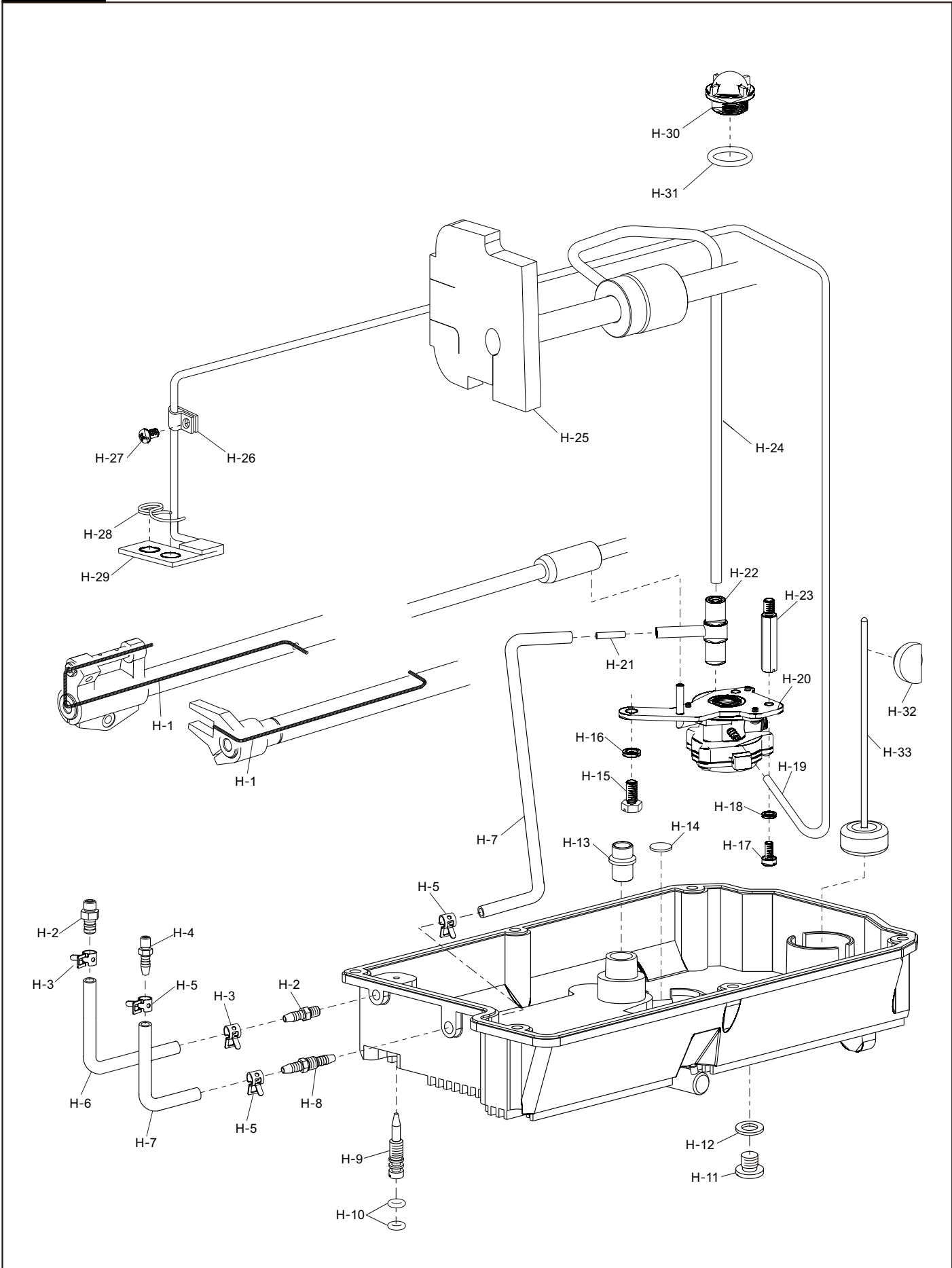






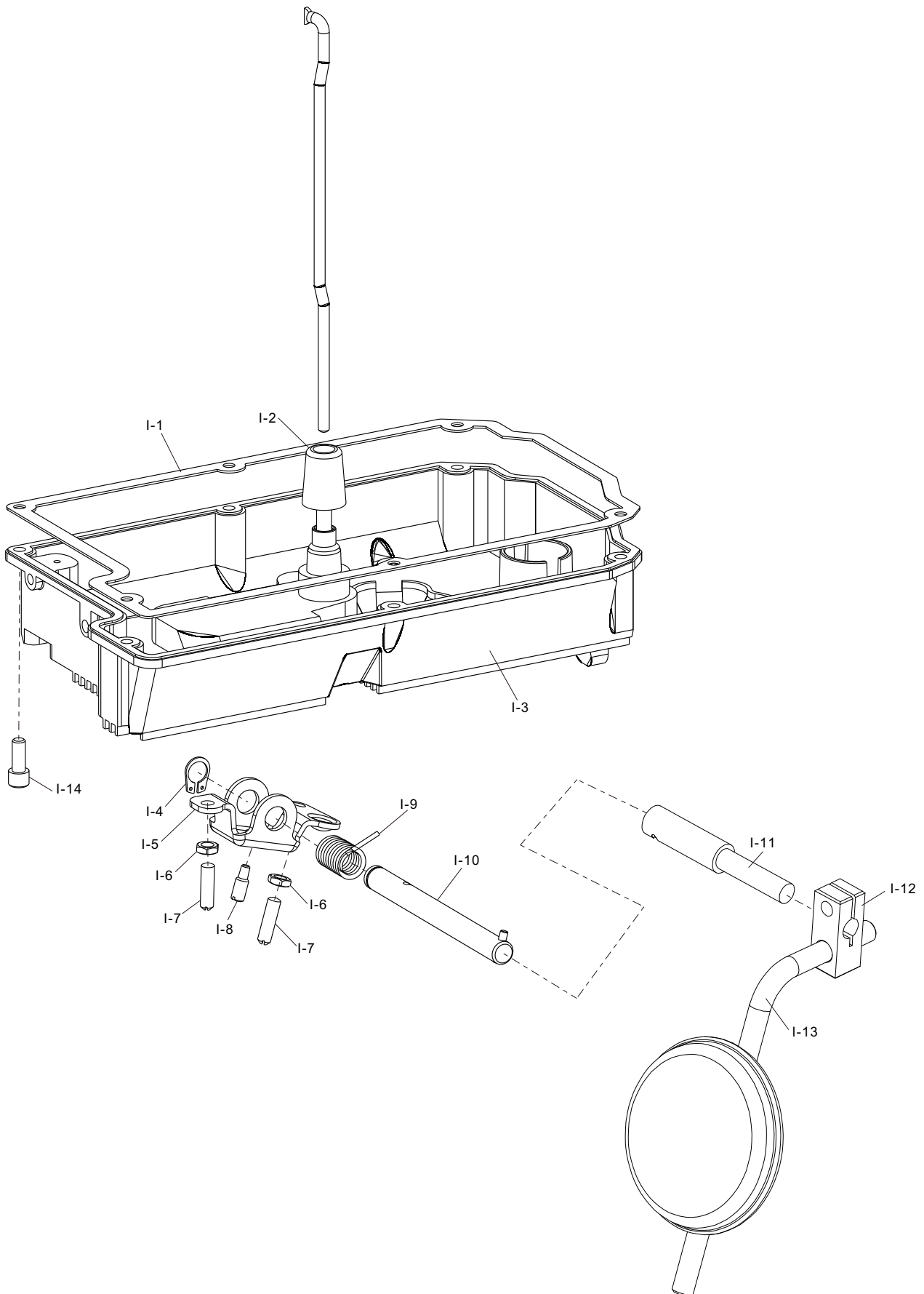


# Lubrication Components





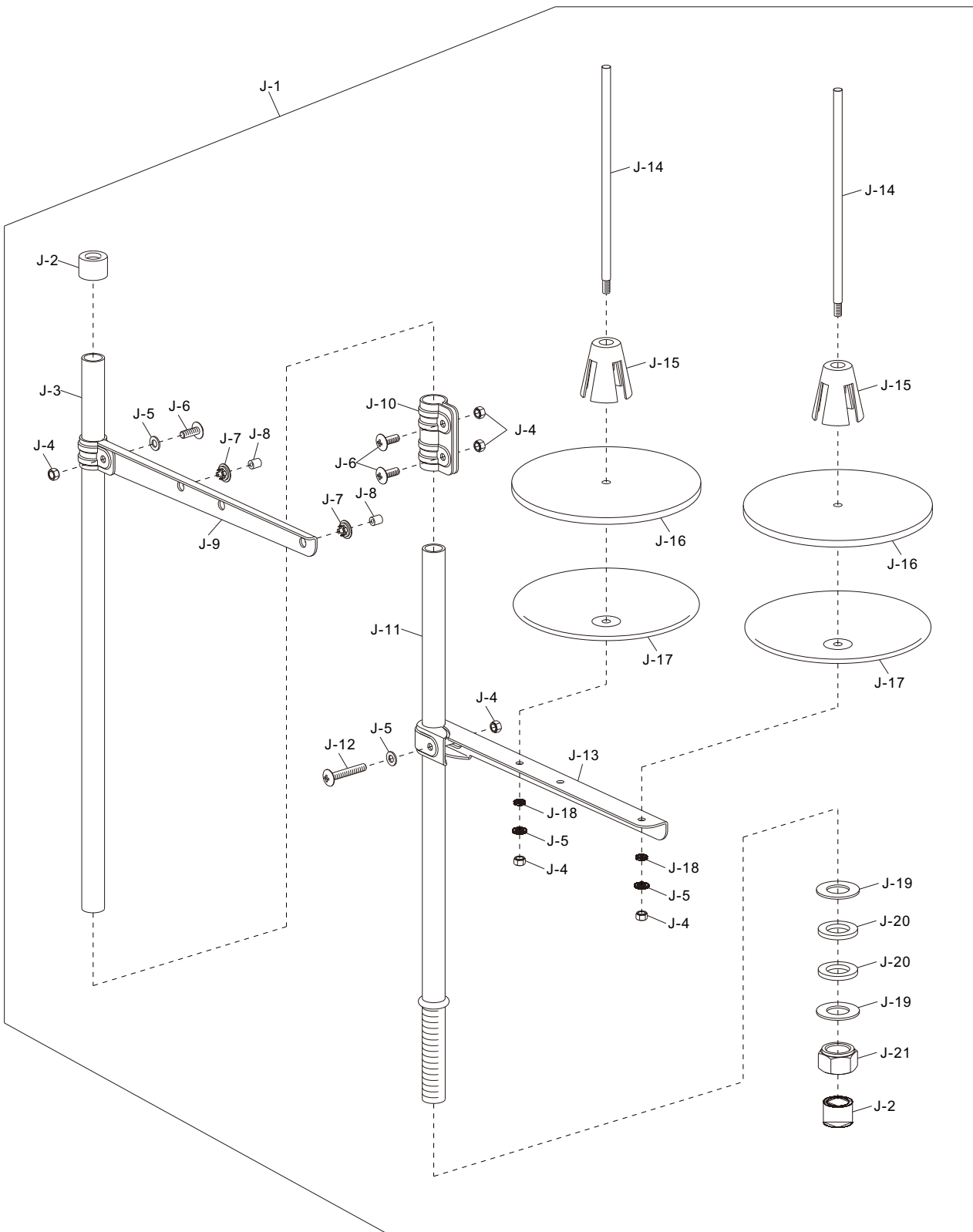
# Presser Foot Components Of Oil Plate Knee Lift



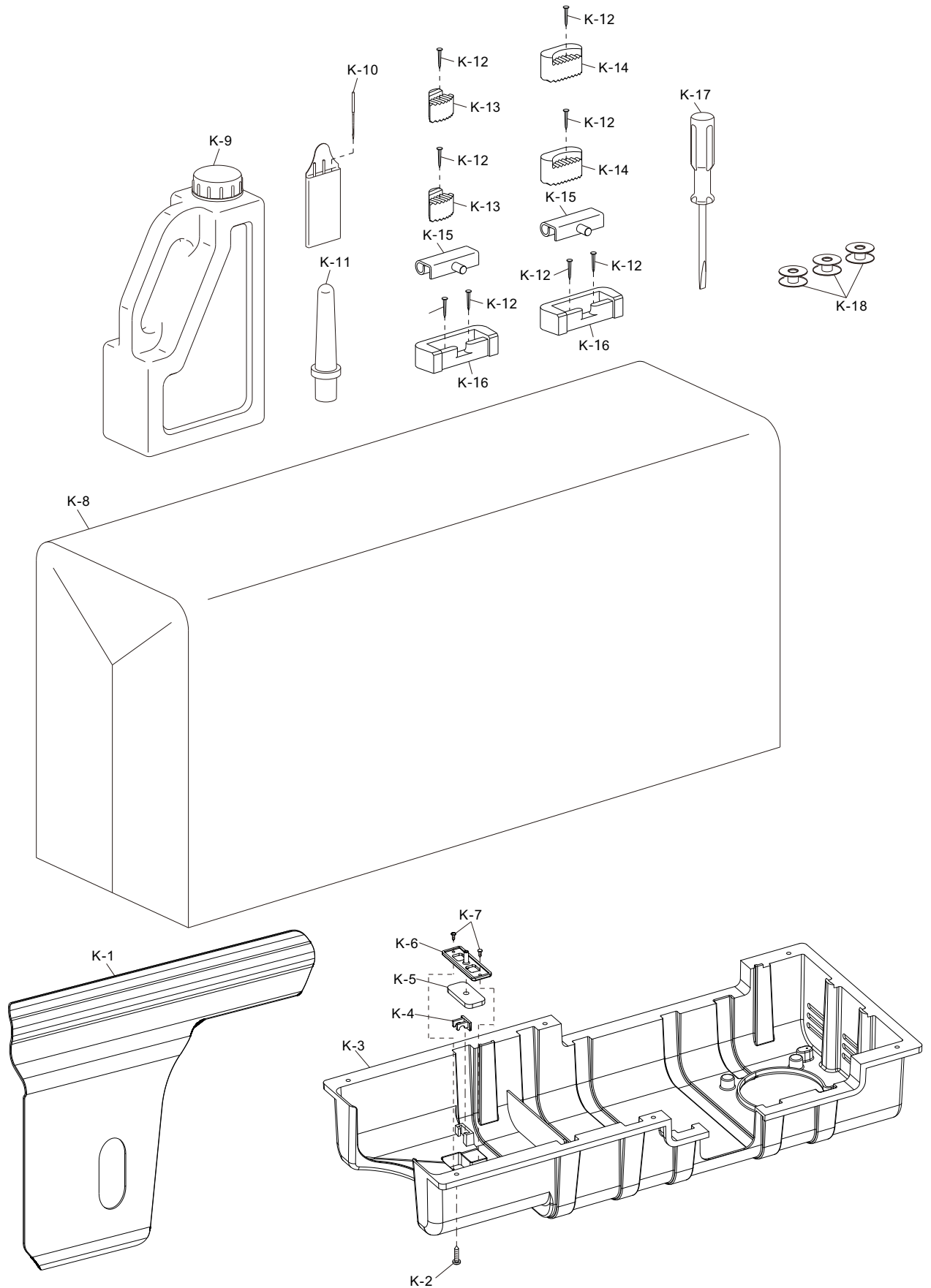


# J

## Components Of Thread-running Stand

















Dealer:

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