

GF-1107-147 MH



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MP02300EN_170818

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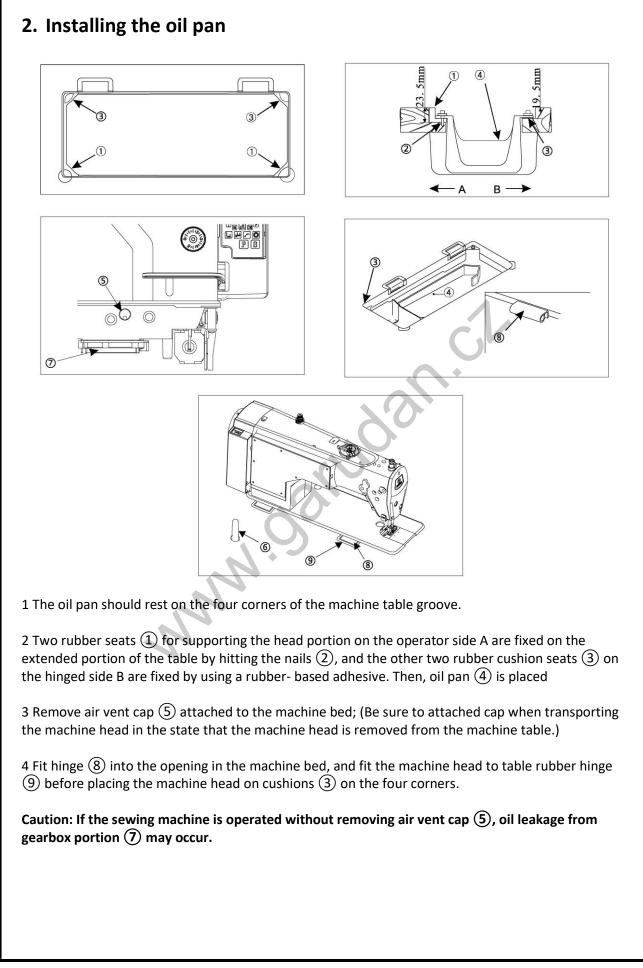
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1. Specification

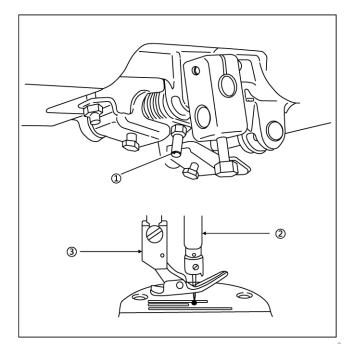
Application	
Sewing speed	3500 rpm
Stitch length	0 ~ 4mm
Needle	DP×5 9 # ~ 18#
	By hand lifter 8mm(standard)
Presser foot lift	By knee lifter 15mm (max.)
Oil	Hook: White Oil No. 10 Gear Box: Shell Tellus Oil No. 22
Rated power	550W

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3. Adjusting the height of the knee lifter

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

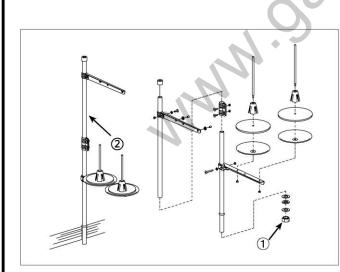


1. The standard height of the presser foot lifted using the knee lifter is 10mm.

2. You can adjust the presser foot lift up to 15mm using knee lifter adjust screw (1).

Caution: Do not operate the sewing machine state that the presser foot ③ is lifter 10mm or more since the needle bar ② in contact with the presser foot ③.

4. Installing the thread stand

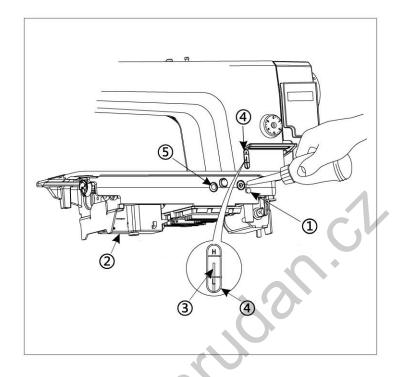


- 1. Assemble the thread stand unit, and insert it in the machine table.
- 2. Tighten locknut 1 to fix the thread stand.
- 3. For ceiling wiring, pass the power cord through spool rest rod ②.

5. Lubrication



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



Fill the oil tank with oil for hook lubrication before the sewing machine.

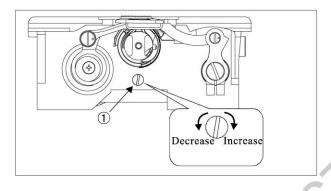
- 1. Tilt the machine head until it comes in contact with the head support rod.
- 2. Remove oil hole cap (1) and fill the oil tank with ZJ NO. 1 using the oiler supplied with the machine.
- 3. The amount of oil should reach up to the engraved maker line of oil tank (2). If the oil is filled excessively, it will leak from the air vent hole in the oil tank or proper lubrication will be not performed. So, be careful.
- 4. when you operate the sewing machine, refill oil if the top end of oil amount indicating rod
 ③ comes down to the lower engraved marker line of oil amount indicating rod comes down to the lower engraved marker line of oil amount indicating window

Caution: 1.When you use a new sewing machine or a sewing machine after an extended period of disuse, run you machine at 3, 00 to 3, 500rpm for the purpose of break- in. 2. Do not remove rubber plug ③.

6. Adjusting the amount of oil in the hook



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



Adjustment of the amount of oil in the hook is performed with oil amount adjustment screw.

Adjustment procedure:

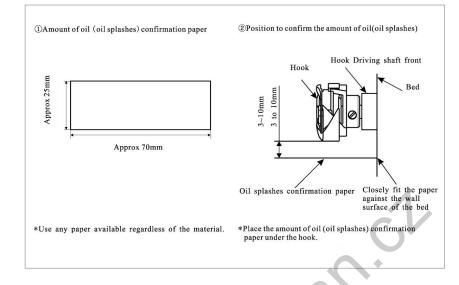
Tighten (turn clockwise) oil amount adjustment screw (1) to increase the amount of oil in the hook, or loosen (turn counterclockwise) to decrease it.

Caution: 1.When using RP hook (hook for dry head) for the SS type, be sure to loosen the oil amount adjustment screw up to the minimum so as to reduce the oil amount in the hook.

2. Never drain the oil in the oil tank even when RP hook (hook for dry head) is used.

7. Adjusting the amount of oil (oil splashes)

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



1. How to confirm the amount of oil (oil splashes)

When carrying out the procedure described below in 2, remove the slide plate and take extreme caution not to allow your fingers to come in contact with the hook.1) If the machine has not been sufficiently warmed up for operation, make the machine run idle for approximately three minutes. (Moderate intermittent operation)

2) Place the amount of oil (oil splashes) confirmation paper under the hook while the sewing machine is in operation.

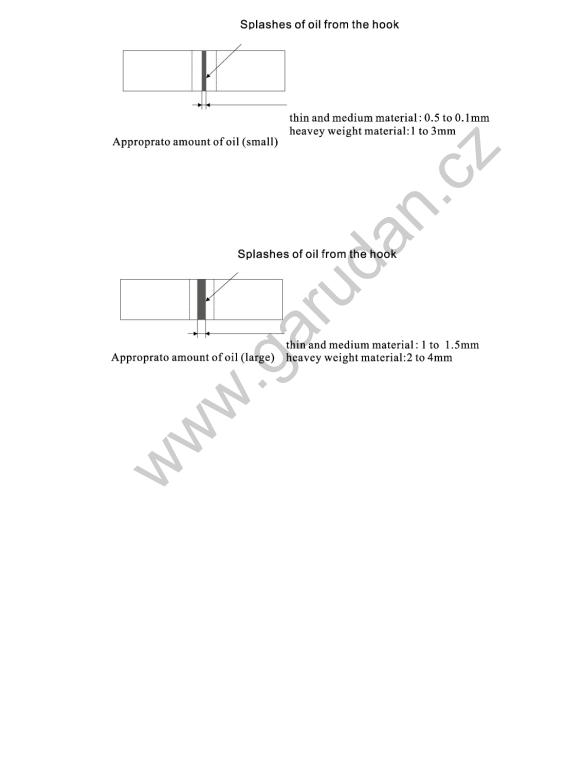
3) Confirm that oil exists in the oil tank.

4) Confirmation of the amount of oil should be completed in five seconds. (Check the period of time with a watch.)

2. Sample showing the appropriate amount of oil

1) The amount of oil shown in the samples on the left should be finely adjusted in accordance with sewing processes. Be careful not to excessively increase/ decrease the amount of oil in the hook. (If the amount of oil is too small, the hook will be sized (the hook will be hot). If the amount of oil is too much, the sewing product may be stained with oil.)

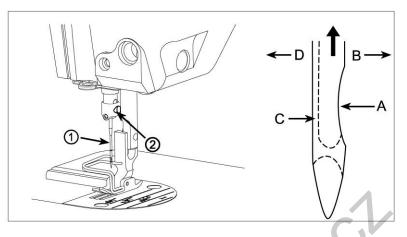
2) Adjust the amount of oil in the hook so that the oil amount (oil slashes) should not change while checking the oil amount three times (on the three sheets of paper).



8. Attaching the needle



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



A needle of DBx1 or DPx5 should be used. Select a proper needle size according to the count of thread and the type of material used.

1. Turn the hand-wheel until the needle bar reaches the highest point of its stroke.

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

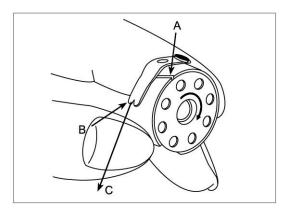
3. Insert the needle fully into the hole in the needle bar in the direction of the arrow until the end of hole is reached.

4. Securely tighten screw 2.

5. Check that long groove C of the needle is facing exactly to the left in direction D.

Caution: When filament thread is used, if the indented part of the needle is tilted toward operator's side, the loop of thread becomes unstable, As a result, hangnail of thread or thread breakage may occur. For the thread that such phenomenon likely to occur, it is effective to attach the needle with its indented part slightly slanting on the rear side.

9. Setting the bobbin into the bobbin case

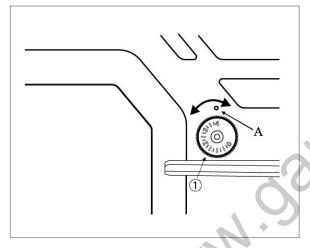


1. Install the bobbin in the bobbin case so that the thread would direction is clockwise.

2. Pass the thread through thread slit A, B so doing, the thread will pass under the tension spring and come out from notch B.

3. Check that the bobbin rotates in the direction of the arrow when thread C is pulled.

10. Adjusting the stitch length



d

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

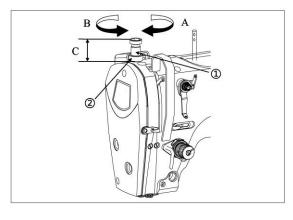
2. The dial calibration is in millimeters.

3. When you want to decrease the stitch length, turn stitch length dial (1).

11. Presser foot pressure



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



1. Loosen nut (2), as you turn presser spring regulator (1) clockwise (in direction A), the presser foot pressure will be increased.

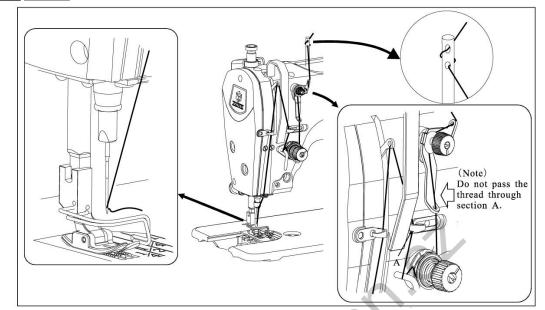
2. As you turn the presser spring regulator counterclockwise (in direction B), the pressure will be decreased.

3. After adjustment, tighten nut (2).

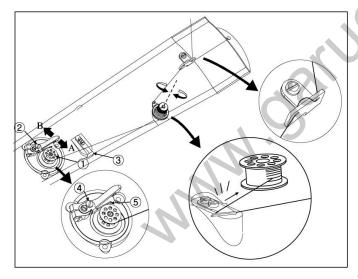
4. For general fabrics, the standard height of the presser foot spring regulator is 32 to 34 mm (4.5Kg).

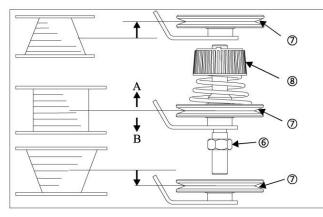
12. Threading the machine head

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



13. Winding the bobbin thread





1. Insert the bobbin deep into the bobbin winder spindle 1 until it will go no further.

2. Pass the bobbin thread pulled out from the spool rested on the right side of the thread stand following the order as shown in the figure on the left. Then, wind clockwise the end of the bobbin thread on the bobbin several times.(In case of the aluminum bobbin, after winding clockwise the end of the bobbin thread, wind counterclockwise the thread coming from the bobbin thread tension several times to wind the bobbin thread with ease.)

3. Press the bobbin winder trip latch (2) in the direction of A and start the sewing machine.

The bobbin rotates in the direction of C and the bobbin thread is wound up. The bobbin winder spindle (1) automatically as soon as the winding is finished.

4. Remove the bobbin and cut the bobbin thread with the thread cut retainer.

5. To adjust the winding amount of the bobbin thread, loosen the setscrew (4) and move the bobbin winder adjusting plate (5) to the direction of A or B. Then, tighten the setscrew (4). To the direction of A: Decrease; to the direction of B: Increase.

6. In case that the bobbin thread is not wound evenly on the bobbin, loosen the nut 6 and turn the bobbin thread tension to adjust the height of the thread tension disk 7.

F It is the standard that the center of the bobbin is as high as the center of the thread tension disk.

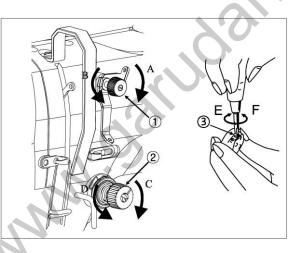
 \mathbb{P} Move the position of the thread tension disk (7) to the direction of A as shown in the figure on the left when the winding amount of the bobbin thread on the lower part of the bobbin is excessive and to the direction of B as shown in the figure on the left when the winding amount of the bobbin thread on the upper part of the bobbin is excessive.

After the adjustment, tighten the nut (6).

Caution: 1. When winding the bobbin thread, start the winding in the state that the thread between the bobbin and thread tension disk ⑦ is tense.

2. When winding the bobbin thread in the state that wing is not performed, remove the needle thread from the thread path of thread take-up and remove the bobbin from the hook.

14. Thread tension



1. Adjusting the needle thread tension

1) As you turn thread tension nut (1) clockwise (in direction A), the thread remaining on the needle after thread trimming will be shorter.

2) As you turn nut (1) counterclockwise (in direction B), the thread length will be longer.

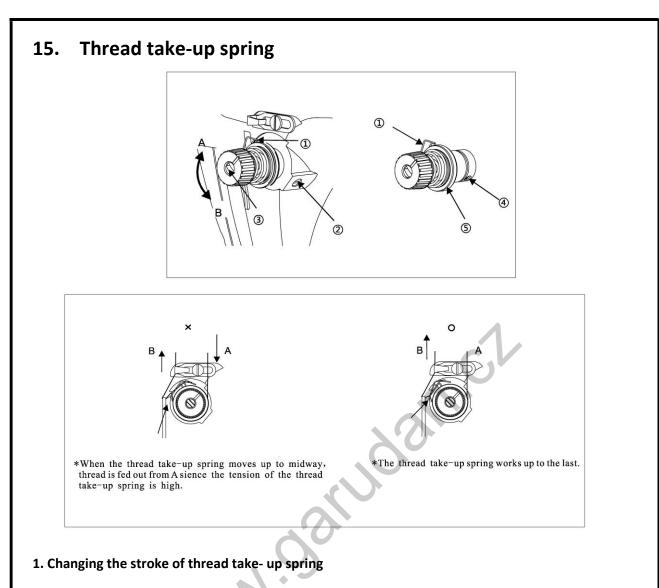
3) As you turn thread tension nut (2) clockwise (in direction D), the needle thread tension will be increased.

4) As you turn nut (2) counterclockwise (in direction D), the needle thread tension will be decreased.

2. Adjusting the bobbin thread tension

1) As you turn tension adjust screw (3) clockwise (in direction E), the bobbin thread tension will be increased.

2) As you turn screw ③ counterclockwise (in direction F), the bobbin thread tension will be decrease.



1) Loosen setscrew (2).

2) As you turn tension post ③ clockwise (in direction A), the stroke of the thread take-up spring will be increased.

3) As you turn tension post (3) counterclockwise (in direction B), the stroke will be decreased.

2. Changing the pressure of thread take-up spring

1) Loosen setscrew (2) and remove thread tension (5).

2) Loosen setscrew ④.

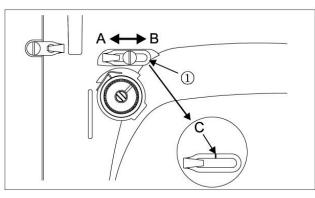
3) As you turn tension post $(\underline{3})$ clockwise (in direction A), the pressure will be increased.

4) As you turn tension post ③ counterclockwise (in direction B), the pressure will be decreased. Usually, upon the machine coming out, all the take-up spring has been adjusted well, only while sew special material thread, it need to be adjusted again. To judge the work of the thread take-up spring, confirm whether or not the thread take-up spring works up to the last before needle thread is pulled out from A when pulling out needle thread in the direction of B after the pressure of the thread take-up spring has been performed. When it does not work up to the last, decrease the pressure of the thread take-up spring loes not work properly. For the general fabrics, a stroke of 10 to 13mm in proper.

16. Adjusting the thread take-up stroke

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

1. When sewing heavyweight materials, move thread guide (1) to the left (in direction A) to increase



the length of thread pulled out by the thread take-up.

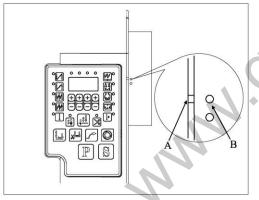
2. When sewing lightweight materials, move thread guide (1) to the right (in direction A) to decrease the length of thread pulled out by the thread take-up.

3. Normally, thread guide (1) is positioned in a way that marker line C is aligned with the center of the screw.

17. Adjusting the needle stop position

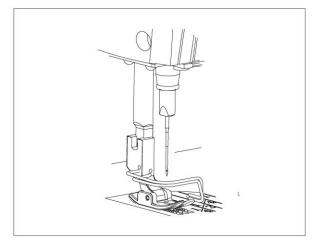


Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



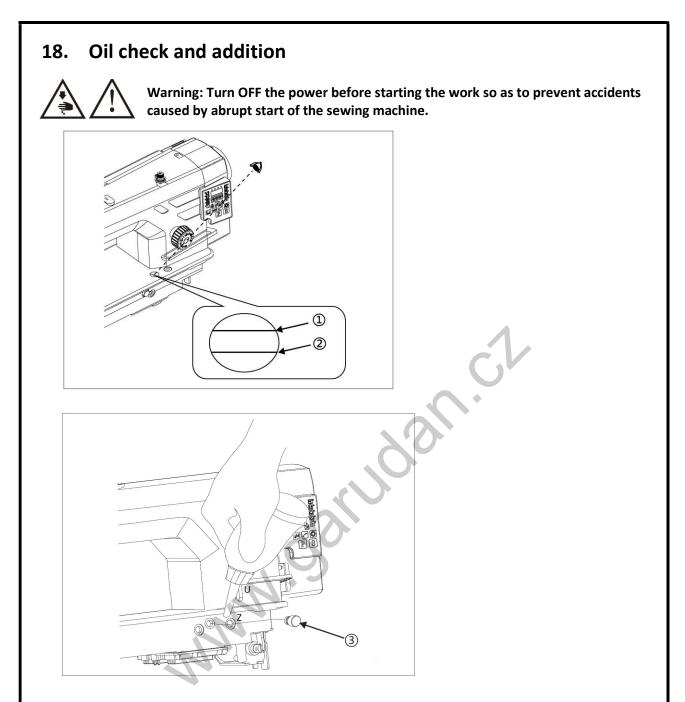
1. Stop position after thread trimming

 The standard needle stop position is obtained by aligning marker dot A on the pulley cover with white marker dot B on the hand-wheel.
 The needle position reference position adjustment (Parameter P-75). Set up the parameter of P-75, changing the datum shift position of machine' nose to adjust the needle position.



2. Lower stop position

The lower needle stop position when the pedal is returned to the neutral position after the front part of the pedal is depressed can be adjusted as follows. (Parameter P-69) Setup the lowest position of needle, from the point of the needle position offset.



When the sewing machine running, please check lubricating oil of gear box is sufficient or not. Add sufficient oil in time.

1. When you open the new machines, the lubricating oil of gear box is sufficient. While you running the machines, the oil is spent continuously, we can inspect the oil of gear box is sufficient or not through the oil mark on gear box. According to the picture, we can see gear box's oil mark. (1), It means oil is enough and machines can be running safely. (2), It means oil is used out and need to add oil immediately.

2. If the oil is used out, please uncover the rubber plug ③ of gear box(note the picture), then add lubricating oil, it is ok when the oil is up to the scale ① of oil mark.

Adjusting of the pedal 19. Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine. Ш 2 (1)2 4

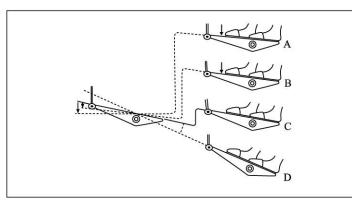
1. Installing the connecting rod Move pedal ③ to the right or left as illustrated by the arrows so that motor control lever ① and connecting rod ② are straighted.

2. Adjusting the pedal angle

1) The pedal tilt can be freely adjusted by changing the length of the connecting rod.

2) Loosen adjust screw (4), and adjust the length of connecting rod (2).

20. Pedal operation



1. The pedal is operated in the following four steps:

 The machine runs at low sewing speed when you lightly depress the front part of the pedal B.
 The machine runs at high sewing speed when you further depress the front part of the pedal A.
 (If the automatic reverse feed stitching has been preset, the

machine runs at high speed after it completes reverse feed stitching.)3) The machine trims threads when you fully depress the part of the pedal D.

☞ If your machine is provided with the Auto-lifter, an addition step is given between the machine stop and thread-trimming step. The presser foot goes up when you lightly depress the back part of the pedal C, and if you further depress the back part, the thread trimmer is actuated.

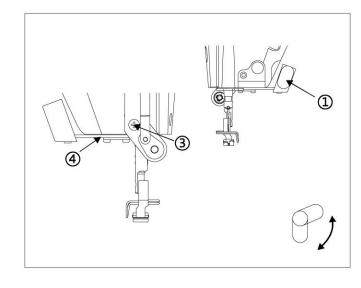
Figure 1 f you reset the pedal to its neutral position during the automatic reverse feed stitching at seam start, the machine stops after it completes the reverse feed stitching;

The machine will perform normal thread trimming even if you depress the back part of the pedal immediately following high or low speed sewing.

The machine will completely perform thread trimming even if you reset the pedal to its neutral position immediately after the machine started thread trimming action.

When the machine stops with its needle down, and if you want to bring the needle up, depress the back part of the pedal once.

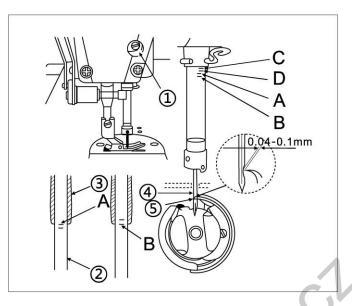
21. One-touch type reverse feed stitching mechanism



1. How to operate

 The moment switch (1) is pressed, the machine performs reverse feed stitching.
 The machine resumes normal feed stitching the moment the switch lever is released.

22. Needle-to-hook relationship



1. Turn the hand- wheel to bright the needle bar down to the lowest point of its stroke, and loosen setscrew (1).

2. Adjusting the needle bar height:

1) While using DB needle, align marker line A with bottom end of needle bar lower bushing (3), then tighten setscrew (1).

2) While using DA needle, align marker line C with the bottom end of needle bar lower bushing (3), then tighten setscrew (1).

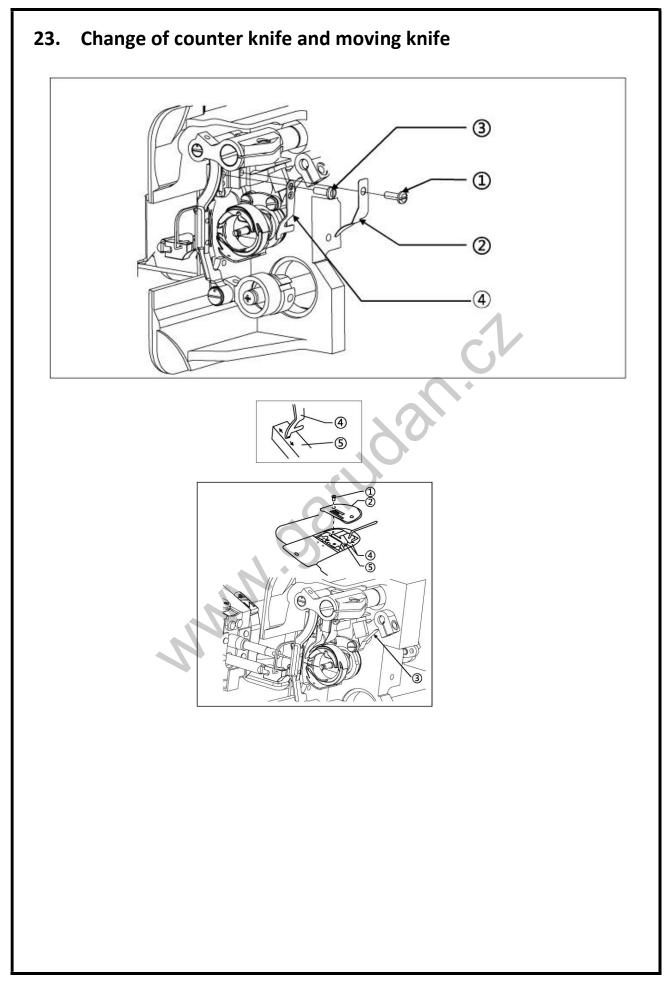
3. Locate the hook position:

While using DB needle, loosen the three hook set screw, turn the hand-wheel, and align marker line B on ascending needle bar 2 with the bottom end of needle bar lower bushing 3.
 While using DA needle, loosen the three hook set screw, turn the band-wheel, and align marker line D on ascending needle bar 2 with the bottom end of needle bar lower bushing 3.

4. After making the adjustments mentioned in the above steps, align hook blade point (5) with the center of the needle (4), provide a clearance of 0.04mm to 0.10mm (reference value) between the needle and the hook, then securely tighten setscrews in the hook.

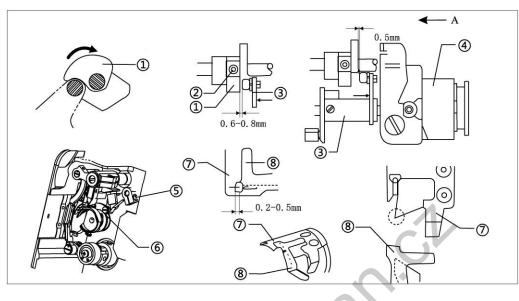
Caution: 1. If the clearance between blade point of hook and the needle is smaller than the specified value, the blade point of hook will be damaged. If the clearance is larger, stitch skip-ping will result.

2. Use a hook of the same part No. When replacing your hook with a new one.



24. Adjustment of trimming system

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



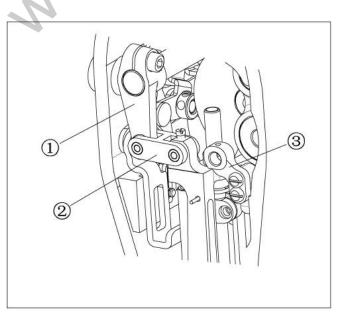
25. Sending to the change



Warning: turn DFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

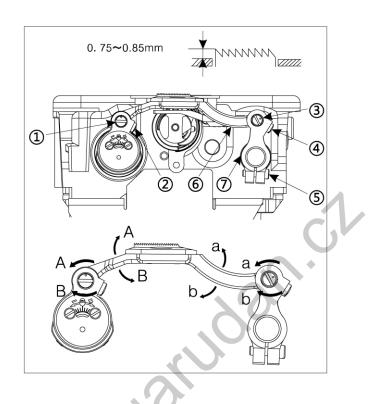
1) When you use screw to connect needle bar small rod (2) with swing front crank shaft (1), the feed way of machine is needle feed.

2) When you use screw to connect needle bar small rod (2) with needle bar holder (1), the feed way of machine is lower feed



26. Height and tilt of the feed dog

Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



Height of the feed dog protrudes from the throat plate surface by 0.75 to 0.85mm (1mm for heavy type), Adjust the height in accordance with the material to be used.

1. Adjusting the height and tilt of the feed dog

Loosen setscrew (2) in feed bar driving shaft (1) and setscrew (4) in feed bar rocker shaft (3).
 Height and tilt of the feed dog will change by turning both shafts (1) and (3) with a screwdriver.
 For the relation between the rotating direction of each shaft and tilt of feed bar (6), refer to the

figure on the left. 4) After the adjustment, securely tighten the setscrews. (Tighten setscrews (2) and (4) in the state that shafts (1) and (3) are pushed against the hand-wheel side.)

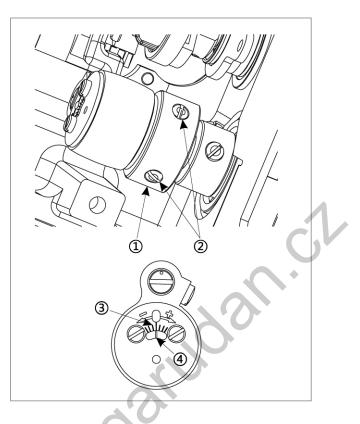
Caution: 1. If the tilt of the feed dog is adjusted with one shaft only, the height of the feed dog changes. Be sure to adjust it with both shafts.

2. Movement position of the feed dog may be shifted depending on the adjusting position of the shaft. At this time, loosen setscrew (5) in feed rocker shaft arm (7) and adjust the movement position.

27. Adjusting the feed timing



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

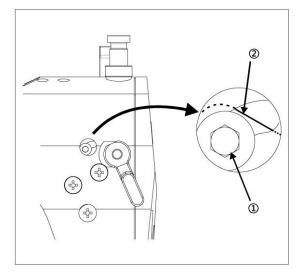


The feed timing can be changed by changing the stop position of feed eccentric cam (1). How to adjust the feed timing

1. Tilt the sewing machine head and loosen two setscrews 2 in feed eccentric cam 1.

- 2. Turn feed eccentric cam (1) to change the feed timing.
- For Turn feed eccentric cam (1) in the direction of (+) \rightarrow Increases the feed timing.
- For Turn feed eccentric cam (1) in the direction of (-) \rightarrow Decreases the feed timing.

28. Thread tension release releasing mechanism



By means of the thread tension release releasing mechanism, sewing can be performed without slacking the needle thread tension even when the presser foot is lifted during sewing. (Even when the presser foot is slightly lifted at the thick overlapped section by the knee lifter, this mechanism can prevent the thread tension from being changed.)

How to release

1) Remove the cap in the machine head and loosen thread tension release changeover screw (1) using a hexagon wrench.

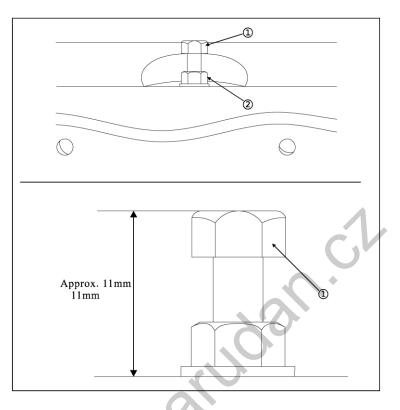
2) Fix screw (1) on the top of thread tension release changeover plate (2). The thread tension disk does not rise even when the presser foot is lifted, and the needle thread tension is not loosened. (The thread tension disk rises only when thread trimming is performed.)

Caution: Do not use screw (1) at any position other than the top or bottom position of the thread tension release changeover plate. The screw has been factory-set to the bottom position at the time of delivery.

29. Micro-lifting mechanism of the presser foot



Warning: Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

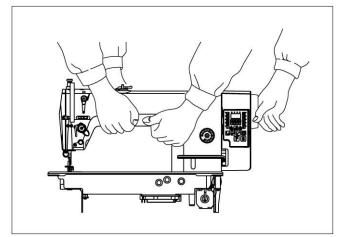


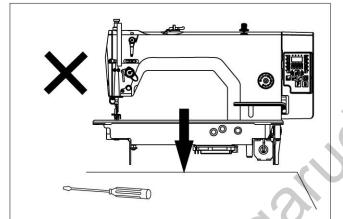
When sewing velvet or the like which is fluffy, slippage of material of damage of material is reduced by using screw (1) for presser foot micro-lifting.

Gradually tighten screw (1) for presser foot micro-lifting in the state that nut (2) is loosened, adjust the presser foot to the position where it is finely lifted until it matches the material, and fix it with nut (2).

Caution: When the presser foot micro-lifting mechanism is not used, adjust the height of screw (1) so that it is higher by approximately 11mm than the sewing machine. If the sewing machine is operated in the state that the micro-lifting mechanism is working, sufficient feed force cannot be obtained.

30. Caution when carrying or placing the sewing machine





MARA

1. How to carry the sewing machine.

Carry the sewing machine with two person as shown in the figure.

Caution: Do not hold the hand-wheel.

2. Caution when placing the sewing machine.

Do not place any protruding thing such as screwdriver or the like on the place where the sewing machine is set.







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Full automatic integrated sewing series manual V1.9

I. Safety instruction
Please read the operation manual and related sewing machinery datasheet carefully before correct use.
1.1 (1) Power voltage and frequence: please refer to motor and control box nameplate.
(2) Interference from electromagnetic wave:please keep far away strong magnetic or high radiation environment in order to avoid obstructions and make to misoperation.
(3) Grounding: to avoid the noise obstructions or leakage of electricity accident(inculding sewing machine, motor, control box and positioner).
1.2 Please make sure power off at least lmin and then can open control box cover, because there are dangerous high voltage.
1.3 Please turn off the power while repairing or wearing needle in order to protect operater's safty.
1.4 August Used where potential dangers exist.
1.5 Product warranty period of one year on condition that this machine is operated correctly and no man-made damage.
2. System parameter table

1. 5 Product warranty period of one year on condition that this machine is operated contextly due no mean made damaget
 2. System parameter table

 A: 587/586 (Full automatic integrated Digital version)
 B: 587C/CD (Full automatic integrated Liquid crystal version)
 C: 588 (Full automatic Less oil integrated Digital version)
 D: 588C/CD (Full automatic Less oil integrated Liquid crystal version)
 B: 587H/586H (Full automatic Thick material integrated Digital version)
 F: 587CH (Full automatic Thick material integrated Liquid crystal version)
 F: 587CH (Full automatic Thick material integrated Liquid crystal version)
 F: 587CH (Full automatic Thick material integrated Liquid crystal version)
 F: 587CH (Full automatic Thick material integrated Liquid crystal version)
 F: 587CH (Full automatic Thick material integrated Liquid crystal version)
 F: 587CH (Full automatic machine pressure foot built-in)
 N: 587YH (Fully automatic Thick material machine pressure foot built-in)

	Project	Content	Setting range	The default	model	Level	ending reinforcing -sewing	M M		inforcing-sewing 2 times, to a sinforcing-sewing 1 times, to a		
1	Sewing speed	Set sewing speed	200~5000rpm	value 3700	ABCDGIL	т	free-style	<u>P.1</u>				behind for thread-cutting and thread wining
2	Soft-start function	1~9: Soft start stitches	200~3500rpm 1~9	3000 1	EFHJKN All	Ĭ	sewing continuous		Press treadle ahead for normal sewing, stop in the middle, behind for thread-cutting and thread wipi 1. Press treadle ahead for automatic sewing, to and fro, which is set at D and can reach 15times. (F)			ich is set at D and can reach 15times.(F)
3	Ornamental bartacks Fixed-length seam sewing speed	0: Invalid 1: Effective Set fixed-length seam sewing speed	0/1 200~4000rpm 200~3500rpm	0 3000 2500	A11 ABCDGIJL EFHKN	I	reinforcing -sewing	44	2. Continuous reinforcing-sewing is in trigger mode by default, treadle doesn't need to be kept being p corresponding trigger light of preset sewing is solid lit. 3. Previous ending reinforcing-sewing setting is invalid if this function is valid.			
5	Simple sewing mode Settings	0: invalid 1: effectively can keep needle from breaking while	0/1	0	A11	I			1.Press treadle a	head to execute sewing times s	set at E or E,	F, G, H.
9 .9	Back stitch speed limitation Solid after before sewing stop	backstitching 0: unavailable 1: available	500~1500rpm 0/1	800 0	A11 A11	I	preset sewing		 Sewing will stop immediately if treadle is lifted; press treadle again, it will go on with the rest. Ending reinforcing-sewing (if selected), thread-cutting and thread wiping will be automatically executed af is completed. 			
20	Setting of reverse sewing switch function	Reverse sewing switch mode 0: Only reverse sewing 1: Reverse sewing and fill needle 2: Only reverse sewing, standby without operating	0/1/2	0	A11	Ι	parameter setting	Ø				matically conduct sewing at E, F, G, H sections; th inuous reinforcing-sewing mode means that it is tri
21 22	soft start speed 1 soft start speed 2	speed of the 1 st needle of soft start speed of the 2 ^{sd} needle of soft start	100~3000rpm 100~3000rpm	400 1000	A11 A11	I I	thread-cutt ing	*	Set or cancel the	read-cutting function.		
23 24	soft start speed 3 Presser foot soft lowering	speed of the 3 ^{rd~9th} needle of soft start 0: unavailable 1: available	100~3000rpm 0/1	1500 0	A11 ABCDEFGHIJK	I	needle-lift ing/stitch	<u></u>		e, can be based on the accord tinuous feeding half needle.		ength of time is different, complementary half
25	function Presser foot lift function	0: unavailable 1: available	0/1	1 0 1	LN ABCDEFGHIJK	I	Needle	†	Set the needle n	osition shortcut kevs, Kev i	s effective	for needle, The cancel key function is set to s
27	Power on and positioning	0: unavailable 1: available Setting of signal mode of turn/lift switch of	0/1 0/1/2	1 1 0	LN A11 A11	I	position The middle presser			set shortcut keys: set or c		
29	signal mode for turn/lift switch Presser foot soft lowering time	machine head 0: always open 1: always close 2: forbid a protection To set presser foot soft lowering time The longer time the lower speed of the presser	50~500ms	300	ABCDEFGHIJK	I	foot Shear line	,	1163361 1007 10	Set Shortcut keys. Set of C	ancer the p	
32	Decorative bar-tacking dwell	foot	10~500ms	50 50	LN ABCDGI JL	T	pressure foot		The shear line	and presser foot set shortcu	ıt keys: set	or cancel trimmer and presser foot function.
	time To select standard bar-tacking	To set decorative bar-tacking dwell time Standard bar-tacking pedal speed	5~500ms	100	EFHKN	1	Soft start		Soft start to s	et shortcut keys: set or car	ncel the peda	al soft start function.
4	pedal speed mode	Mode selection 0: Auto bar-tacking speed ; 1: Pedal speed 0: No by-piece function	0/1	0	A11	II						oin number to set the display value
35	By-piece rate setting	0: No by-piece function 1 ² 0: Plus 1 to by-piece value for each set thread trimming	0~20	1	A11	Ι	Pinnumberse		Middleend:E, FPer	C. DPeriod of pin number, Light riod of pin number, Light corres	sponding leve	l;
37 41	Thread wiping operation time Low speed	Thread wiping operation time The lowest speed of pedal	0~800ms 100~400rpm	40 200	A11 A11	II I	t/check choice	(\$)	2.Corresponding t		n set range O	~ 15 needle, B paragraph C pin number, can set ran
42	Pedal curve selection	Pedal speed adjustment 0: normal 1: Slow acceleration 2: Quick acceleration	0/1/2	0	A11	I			3. To take the th	read clamp function model, acc	ording to the	on each for 10 11 12 13 14 15 stitches. • buttons can show long thread clamp strength adju according to the key exit
43 44	Dial the line that can set thread-cutting speed	0: unavailable 1: available thread-cutting speed	0/1 100~400rpm	1 280	A11 A11	I I				l three, liquid crystal display rent parameter level	y درا), again	according to the Key exit.
45	Reverse sewing speed limit switch	Reverse sewing speed limit switch processing can prevent reverse sewing needle breakage 0: infinite speed 1: have the speed limit	0/1	0	A11	Ι			On the sewing sett in the parameter	ing interface, the user can pres list will display.		to enter the Parameter Interface, then the Level I p the button for a few seconds to enter the Password
46	pressor foot lifting delays sewing	delay with pressor foot lowered	0~800ms	200 100	ABCDEFGHIJK LN	II			Interface. After		e password, t	hen the user can press the button P to enter the 1
17	output time of total pressure of pressor foot lifting output duty cycle of pressor foot	output time of total pressure of pressor foot lifting output duty cycle of pressor foot lifting	0~800ms	150	A11	II			2.Password settin On the sewing set	-	ep pressing t	he button P for a few seconds to enter the Password
18	lifting hold time of pressor foot lifting	forced shut-down after hold time of pressor foot lifting	0~100	30 40	A11	II	parameter setting	Ρ	Interface, and p	ess the button combination of	"burst butt	on + soft start button" to enter the Password , S2 and S3 from left to right/before three lamp, am
49	output duty cycle of pressor foot lifting	output duty cycle of pressor foot lifting	1~60(s)	12	A11	II	0		one is on) corres	ponding to the button S indica	tes the curre	nt status. Sl lights up, old password input, endin rd into the password reset interface (mistakes ha
50	output time of total pressure of reverse-sewing	output time of total pressure of reverse-sewing	0~800ms	150	A11	II			the S1 state), an	d at the same time S2 light, pro	ompting the in	put new password and click confirm S3 S key input a input if consistent, then set success, return to
51	output duty cycle of reverse-sewing	output duty cycle of reverse-sewing	0~100	40 35	ABEFGHJKLN CDI	II			interfaceIf the n	ew passwords entered are not th	he same, the l	ndicator S1 will be on and the LC screen will be r s the button P, the user will be brought back to the
52	hold time of reverse-sewing	forced shut-down after hold time of reverse-sewing	1~60(s)	12	A11	II			parameters and no		ou can choose	from the numbers of 0 to $9\ {\rm or}$ the letters of A to F
53	starting reinforcing-sewing speed	starting reinforcing-sewing speed	100~3000rpm	1800 1200	ABCDGIL EFHN	I	Teaching function	Г		he teaching function. (for 1		
54	starting reinforcing-sewing	parameter of starting reinforcing-sewing stitch compensation	0~100	500 30 35	JK ABGJL CDI	I	Sewing set program	P1 P15	The number of ne	edles sewing set, Set up a t	otal of 15 s	egment needle number P1 [°] PF. (for liquid crysta
	compensation 1	-		58 10	EFHNK ABG_JL		Clip the line	-))(Clip the line str	rength fast set		
55	starting reinforcing-sewing compensation 2	parameter of starting reinforcing-sewing stitch compensation	0~100	24 18	CDI EFHKN	Ι	intensity					l automatically switch to speed set. Simple seam,
56	ending reinforcing-sewing speed	ending reinforcing-sewing speed	100~3000rpm	1800 1200 500	ABCDGIL EFHN JK	I	speed key	le l	effective. (Application of liquid crystal panel) Speed up. Keeping pressing to increase speed, the display will automatically switch to speed set. Simple seam, free effective. (Application of liquid crystal panel)			
57	ending reinforcing-sewing compensation 1	parameter of ending reinforcing-sewing stitch compensation	0~100	30 35	ABGJL CDI	Ι	Teaching fu In the					ter the teaching interface, this interface has but
		•		58 10	EFHKN ABG JL		two groups (of add-substrac	t key, fill needle	key. Role is as follows:		nto the next section teaching automatically save the
58	ending reinforcing-sewing compensation 2	parameter of ending reinforcing-sewing stitch compensation	0~100	24 18	CDI EFHKN	Ι	numerical r	eduction), '-'	key is invalid. Not	e: when the pedal operation, t	he key is inv	
59	ending reinforcing-sewing speed	ending reinforcing-sewing speed	100~3000rpm	1800 1200	ABCDGIL EFHN	I						cal covering the original mode).
60	continuous reinforcing-sewing	parameter of continuous reinforcing-sewing	0~100	500 30 35	JK ABGJL CDI		5. Erro	_	line, will directly	from the show and save the ne	edle numerica	l, before returning to the fixed length of stitch
00	compensation1 continuous reinforcing-sewing	stitch compensation		58 10	EFHKN ABGJL	1	Error Code	C	ontents	Possible reasons		Checking and treatment
	compensation2		$0 \sim 100$	94	0 T T	Ι					1	
		parameter of continuous reinforcing-sewing stitch compensation Pedal position upon start	10~50	24 18	CDI EFHKN		E011 E012 E013	Motor signa	il error	Motor position sensor signal	taijure	f electric engine plug is well contacted; f electric engine signal detecting device has been roken;
62	Pedal travel upon start		$10 \sim 50$ (0.1°) $10 \sim 100$	18 25	EFHKN All	II	E012 E013 E014				iallure bi i	f electric engine signal detecting device has been roken: f sewing machine handwheel correctly installed.
62 63	Pedal travel upon start Pedal travel upon acceleration Pedal travel at highest rotation	stitch compensation Pedal position upon start Travel relative to medium pedal	(0.1°)	18 25 50	EFHKN All All	II	E012 E013 E014 E015	Motor signa Model type (Motor position sensor signal Unable identify operating b- type	ox model C	f electric engine signal detecting device has been roken; f sewing machine handwheel correctly installed. heck operating box
62 63 64	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift	$\begin{array}{c} (0.1^{\circ}) \\ 10 \sim 100 \\ (0.1^{\circ}) \\ 10 \sim 150 \\ (0.1^{\circ}) \\ -100 \sim -10 \end{array}$	18 25	EFHKN All		E012 E013 E014 E015 E021 E022		error	Unable identify operating be	ox model C	f electric engine signal detecting device has been roken: f sewing machine handwheel correctly installed.
62 63 64 65	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal	$\begin{array}{c} (0,1^{\circ}) \\ 10 \sim 100 \\ (0,1^{\circ}) \\ 10 \sim 150 \\ (0,1^{\circ}) \\ -100 \sim -10 \\ (0,1^{\circ}) \\ 5 \sim 50 \end{array}$	18 25 50 110	EFHKN All All All	II II	E012 E013 E014 E015 E021 E022 E023	Model type of Motor over	error .oad	Unable identify operating b type motor stall motor overload Current detection abnormal	Tallure b i ox model C. I i b E C C	f electric engine signal detecting device has been roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely;f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is worki
62 63 64 65	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser fool lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without	$\begin{array}{c} (0,1^{\circ}) \\ 10{\sim}100 \\ (0,1^{\circ}) \\ 10{\sim}150 \\ (0,1^{\circ}) \\ -100{\sim}{-}10 \\ (0,1^{\circ}) \\ 5{\sim}50 \\ (0,1^{\circ}) \end{array}$	18 25 50 110 -30 10	EFHKN All All All All All	II II II	E012 E013 E014 E015 E021 E022 E023 E101	Model type o	error .oad	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error	Tallure b i ox model C I i b E C C p	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the norme urrent detection loop system is work; roperly; Whether the damage to the device driver.
62 63 64 65 66 67	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal rossition Pedal rossition Travel relative to medium pedal Pedal rossition Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function	$\begin{array}{c} (0,1^{\circ}) \\ 10 \sim 100 \\ (0,1^{\circ}) \\ 10 \sim 150 \\ (0,1^{\circ}) \\ -100 \sim -10 \\ (0,1^{\circ}) \\ 5 \sim 50 \end{array}$	18 25 50 110 -30 10	EPHKN All All All All All All	II II II II II	E012 E013 E014 E015 E021 E022 E023	Model type of Motor over	oad vers fault	Unable identify operating b type motor stall motor overload Current detection abnormal	railure b ii ox model C I i b b E C C P P S B	f electric engine signal detecting device has been roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely;f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is worki
62 63 64 65 66 67	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal	$\begin{array}{c} (0,1^{\circ})\\ 10{\sim}100\\ (0,1^{\circ})\\ 10{\sim}150\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ \end{array}$	18 25 50 110 -30 10 -30 -60	EFHKN A11 A11 A11 A11 A11 A11 A11 A11	II II II	E012 E013 E014 E015 E021 E022 E023 E101 E111	Model type of Motor over Hardware dr	oad vers fault	Unable identify operating by type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault	railure b i ox model C I i b b E C C C C P P S S B S I I	f electric engine signal detecting device has been roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the norms arrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly;
62 63 64 65 66 67 68 69	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position	$\begin{array}{c} (0,1^{\circ})\\ 10{\sim}100\\ (0,1^{\circ})\\ 10{\sim}150\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ -100{\sim}{-10}\\ (0,1^{\circ})\\ -100{\sim}{-10}\\ (0,1^{\circ})\\ 120{\sim}240\\ \end{array}$	18 25 50 110 -30 10 -30 175 177	EPHKN All All All All All All All All All Al	II II II II II	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E121 E121 E131	Model type of Motor over Hardware dr Voltage too Current circ	oad vers fault high low uuit fault	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal	Tailure b i ox model C I i b E C C P C S B S S I S C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properl f the voltage on the inlet wire is too low Whether the ystem voltage detection circuit the normal work. urrent detection loop system is working properly.
62 63 64 65 66 67 68 69 70	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal	$\begin{array}{c} (0,1^{\circ})\\ 10{\sim}100\\ (0,1^{\circ})\\ 10{\sim}150\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ 5{\sim}50\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ -100{\sim}-10\\ (0,1^{\circ})\\ \end{array}$	18 25 50 110 -30 10 -30 175	EPHKN A11 A11 A11 A11 A11 A11 A11 A11 A11 ABEFGHJKLN	II II II II II	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122	Model type of Motor over Hardware dr Voltage too	orror oad vers fault high low uit fault cault	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong	Tailure b i ox model C I I b b E C C C C S S B S S S S S C C C Q Q I I S S I I I I I I I I I I I I I I	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the norms arrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properl f the voltage on the inlet wire is too low Whether t ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit
62 63 64 65 66 67 68 69 70 71	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid	$\begin{array}{c} (0,1^{\circ})\\ 10 \sim 100\\ (0,1^{\circ})\\ 10 \sim 150\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ 100 \sim -10\\ (0,1^{\circ})\\ 100 \sim -10\\ (0,1^{\circ})\\ 120 \sim 240\\ 0/1 \end{array}$	18 25 50 110 -30 10 -30 175 177 0	EPHKN All All All All All All All ABEFGHJKLN CDI All	II II II II II	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133	Model type of Motor over Hardware dr Voltage too Current cir Oz circuit s	orror oad vers fault high low uit fault cault iit error	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault	Tallure b i ox model C I I b E C C P C C C S B S S S I I S S C C D D C C D D D D D D D D D D D D D	f electric engine signal detecting device has been roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has been locked completely; f materials are too thick; lectrical signal detection signal whether the norm urrent detection loop system is work roperly; Whether the damage to the device driver, system into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properl f the voltage on the inlet wire is too low Whether f system voltage detection circuit the normal work, arrent detection loop system is working properly. z circuit system is working properly.
62 63 64 65 66 67 68 69 70 71 72 73	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon start trimming without presser foot lowering position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid Thread pressing actuation angle	$\begin{array}{c} (0,1^{\circ})\\ 10 \sim 100\\ (0,1^{\circ})\\ 10 \sim 150\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 120 \sim -10\\ (0,1^{\circ})\\ 120 \sim 240\\ 0/1\\ 0 \sim 45^{\circ}\\ 0 \sim 9\\ 10 \sim 150^{\circ}\\ \end{array}$	18 25 50 110 -30 10 -30 175 177 0 20 7 100	EPHKN All All All All All All All All All Al	II II II II II	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151	Model type of Motor over Hardware dr Voltage too Current circ Oz circuit Magnet circu over current	orror oad vers fault high low uit fault cault iit error	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit	railure b i ox model C I i b b E C C C P P S S B S S I I S S C C I I C C I I I i i b b C C I I S S C C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the normu irrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. mrent detection loop system is working properly.
62 63 64 65 66 67 68 69 70 71 72 73 74	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid 1'9: Three Intensity Adjustment	$\begin{array}{c} (0,1^{\circ})\\ 10 \sim 100\\ (0,1^{\circ})\\ 10 \sim 150\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ \hline \\ -100 \sim -10\\ (0,1^{\circ})\\ \hline \\ -100 \sim -10\\ (0,1^{\circ})\\ \hline \\ 120 \sim 240\\ 0 / 1\\ 0 \sim 45^{\circ}\\ 0 \sim 9 \end{array}$	18 25 50 110 -30 10 -30 177 0 20 7	EPHKN A11 A11 A11 A11 A11 A11 A11 A11 A11 A1	П П П П П П П П І І І І І І І	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E211	Model type of Motor over Hardware dr Voltage too Current circ Oz circuit Magnet circu over current	oad vers fault high low uit fault cault iit error : cor operation	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error	railure b i ox model C I i b b E C C p C C C C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely; f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly; the voltage on the inlet wire is too low Whether to ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. z circuit system sis working properly. urrent detection loop system is working properly.
62 63 64 65 66 67 68 69 70 71 72 73 74	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function agle Three Intensity Adjustment Thread pressing actuation angle Thread pressing release angle	$\begin{array}{c} (0,1^{\circ})\\ 10 \sim 100\\ (0,1^{\circ})\\ 10 \sim 150\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ \end{array}$ $\begin{array}{c} -100 \sim -10\\ (0,1^{\circ})\\ 100 \sim -10\\ (0,1^{\circ})\\ 120 \sim 240\\ 0/1\\ 0 \sim 45^{\circ}\\ 0 \sim 9\\ 10 \sim 150^{\circ}\\ 160 \sim 300^{\circ}\\ \end{array}$	18 25 50 110 -30 10 -30 10 20 7 100 20 7 100 270 105	EPHKN All All All All All All All All All Al	П П П П П П П П І І І І І І І	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E121 E133 E151 E201 E211 E212 E301 E302	Model type of Motor over Hardware dr Voltage too Current cirr Oz circuit ± Magnet circu over curren Abnormal mo Communicati	orror oad vers fault high low uit fault fault tit error cor operation on error mer failure	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detectio Sci circuit error	Tailure b i ox model C I I b E C C C C S S S S I I S S C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely; f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly; system voltage detection circuit are working properly. t the voltage on the inlet wire is too low Whether to ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. urrent detection loop system is working properly electrical signal is normal. f electric engine plug is well contacted; f operation box plug is well contacted; f operation box components are damaged. to check whether the operating box is damaged.
62 63 64 65 66 67 68 69 70 71 72 73 74 75	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid T9: Three Intensity Adjustment Thread pressing release angle Nhead position adjustment 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set	$\begin{array}{c} (0,1^{\circ})\\ 10 \sim 100\\ (0,1^{\circ})\\ 10 \sim 150\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ 5 \sim 50\\ (0,1^{\circ})\\ -100 \sim -10\\ (0,1^{\circ})\\ \end{array}$ $\begin{array}{c} -100 \sim -10\\ (0,1^{\circ})\\ 100 \sim -10\\ (0,1^{\circ})\\ 120 \sim 240\\ 0/1\\ 0 \sim 45^{\circ}\\ 0 \sim 9\\ 10 \sim 150^{\circ}\\ 160 \sim 300^{\circ}\\ \end{array}$	18 25 50 110 -30 10 -30 175 177 0 20 7 100 270 105 112	EPHKN A11 A11 A11 A11 A11 A11 A11 A1	П П П П П П П П І І І І І І І	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E201 E211 E212 E301 E302 E402	Model type of Motor over Hardware dr Voltage too Voltage too Current circ Oz circuit : Magnet circu over curren Abnormal mo Communicatio Operation in Pedal ID fat	orror oad vers fault high low uit fault ault tit error cor operation on error uner failure ult	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Pedal verification fault	Tailure b i ox model C I I b E C C P C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely; f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly; f the voltage on the inlet wire is too low Whether to ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system sworking properly. z circuit system sworking properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. murrent detection loop system is working properly lectrical signal is marched. f operation box plug is well contacted; f operation box components are damaged. to check whether the operating box is damaged. edal connection is loosen.
62 63 64 65 66 67 68 69 70 71 72 73 74 75	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel upon presser foot training Pedal travel 2 upon tread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Needle position adjustment	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid 1'9: Three Intensity Adjustment Thread pressing release angle Needle position adjustment S: restore the current level factory parameters B: restore the current level factory parameters	$\begin{array}{c} (0,1^{\circ}) \\ 10 \sim 100 \\ (0,1^{\circ}) \\ 10 \sim 150 \\ (0,1^{\circ}) \\ -100 \sim -10 \\ (0,1^{\circ}) \\ 5 \sim 50 \\ (0,1^{\circ}) \\ 5 \sim 50 \\ (0,1^{\circ}) \\ 100 \sim -10 \\ (0,1^{\circ}) \\ 100 \sim -10 \\ (0,1^{\circ}) \\ 120 \sim 240 \\ 0/1 \\ 0 \sim 45^{\circ} \\ 0 \sim 9 \\ 10 \sim 150^{\circ} \\ 160 \sim 300^{\circ} \\ 0 \sim 240^{\circ} \\ 0 \sim 15 \end{array}$	18 25 50 110 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 7 100 270 105 0 0 0	EPHKN A11 A11 A11 A11 A11 A11 A11 A11 A11 A1	П П П П П П П П І І І І І І І	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E211 E212 E301 E302 E402 E403	Model type of Motor over Hardware dr Voltage too Voltage too Current circ Oz circuit : Magnet circu Over curren Abnormal mo Communicatio Operation in Pedal ID far Pedal zero p	orror oad vers fault high low uit fault ault tit error cor operation on error mer failure ilt position fault	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Pedal verification fault The pedal zero position ove	railure b i ox model C I I b E C C P C C C C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be- locked completely; f materials are too thick; lectrical signal detection signal whether the normu urrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether t ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. f electric engine plug is well contacted; f operation box components are damaged. b check whether the operating box is damaged. edal connection is loosen. he pedal is damaged or it is not under stop state wo correction.
62 63 64 65 65 66 67 68 69 70 71 72 73 74 75 79	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel upon presser foot training Pedal travel 2 upon tread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversel of needle lift angle Thread pressing actuation angle Thread position adjustment return to factory-set parameter highest speed of sewing	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Reversal of needle position Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid 1'9: Three Intensity Adjustment Thread pressing release angle Needle position adjustment S: restore the current level factory parameters 8: restore the current level factory parameters S key execution highest speed of sewing	$\begin{array}{c} (0,1^{\circ})\\ 10-100\\ (0,1^{\circ})\\ 10-150\\ (0,1^{\circ})\\ -100-10\\ (0,1^{\circ})\\ 5-50\\ (0,1^{\circ})\\ 5-50\\ (0,1^{\circ})\\ 1^{\circ})\\ \hline \\ -100-10\\ (0,1^{\circ})\\ 1^{\circ})\\ 120-240\\ 0/1\\ 0-45^{\circ}\\ 0-9\\ 10-150^{\circ}\\ 160-300^{\circ}\\ 0-240^{\circ}\\ \end{array}$	18 25 50 110 -30 10 -30 10 -30 10 -30 10 -60 175 177 0 20 7 100 270 105 112 165	EPHKN All All All All All All All All All Al	П П П П П П П П І І І І І І І	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E121 E133 E151 E201 E211 E212 E301 E302 E402 E403 E501 P. oFF	Model type of Motor over Hardware dr Voltage too Current circ Oz circuit : Magnet circu over curren Abnormal mo Communicati Operation in Pedal ID fan Pedal zero p Safety switt Power off L	orror oad vers fault high low suit fault fault tit error cor operation on error mer failure alt boosition fault th fault bisplay	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off	Tailure b i ox model C I I i b b E C C P P C S S S S S S S S S S S C C C O 0 0 I I E C C P P P I I S S S S S S S S S S S S S S S	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has bee locked completely; f materials are too thick; lectrical signal detection signal whether the norms urrent detection loop system is worki roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; system voltage detection circuit are working properly f the voltage of the inlet wire is too low Whether i ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. f electric engine plug is well contacted; f operation box components are damaged. o check whether the operating box is damaged. edal connection is lossen. he pedal is damaged or it is not under stop state wh orrection. it down the head or check turned up switch. ait for power supply to resume.
62 63 64 65 66 67 68 69 70 71 72 73 74 75 79 79	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel upon presser foot training Pedal travel 2 upon tread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reverse needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Needle position adjustment return to factory-set parameter highest speed of sewing Aggravating function/	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid Thread pressing release angle Needle position adjustment 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to Sbutton, select yes, then press the S key execution highest speed of sewing Needle wear through cloth when used 0: invalid: 1 ~ 15 strength regulation	(0, 1°) 10~100 (0, 1°) 10~150 (0, 1°) -100~-10 (0, 1°) 5~50 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) 120~240 0/1 0~45° 0~9 10~150° 160~300° 0~240° 0~15 300~5000spm 300~15	18 25 50 110 -30 10 -30 10 20 7 100 220 7 105 112 165 0 4000 3000 0	EPHKN All All All All All All All All All Al	П П П П П П П П П П П П П П П П П П П	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E211 E212 E301 E302 E402 E403 E501 P. oFF Eval	Model type of Motor over Hardware dr Voltage too Current cirr Oz circuit : Magnet circu over curren Abnormal mo Communicatie Operation ii Pedal ID fal Pedal zero p Safety swit Power off 1 Trial expiri	error oad vers fault high low uit fault cault it error cor operation on error mer failure th fault bisplay ed	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off Trial expired	Tailure b i ox model C I I b E C C C C S S S S C C C O O I I S S C C C C C C C C C C C C C	f electric engine signal detecting device has been roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be locked completely; f materials are too thick; lectrical signal detection signal whether the normu irrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether 1 ystem voltage detection circuit the normal work. irrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. if electric engine signal is matched. f operation box components are damaged. o check whether the operating box is damaged. edal connection is loosen. he pedal is damaged or it is not under stop state who rrection. at down the head or check turned up switch. ait for power supply to resume.
62 63 64 65 66 67 68 69 70 71 72 73 74 75 79 80 83 84 85	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reverse needle lift function Reverse needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Thread pressing release angle Needle position adjustment return to factory-set parameter highest speed of sewing Aggravating function/ Machine needle emphasis function Aggravating function	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position to negative Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function angle Threed pressing actuation angle Threed pressing release angle Needle position adjustment 5: restore the current level factory parameters 8: restore the current level factory parameters 8: restore the current level factory parameters 8: key execution highest speed of sewing Needle wear through cloth when used 0: invalid; 1 ~ 15 strength regulation To set suction angle of shear line	(0, 1°) 10~100 (0, 1°) 10~150 100~10 (0, 1°) -100~-10 (0, 1°) 5~50 (0, 1°) -100~-10 (0, 1°) 100~-10 (0, 1°) 1100~-10 (0, 1°) 120~240 0/1 0~45° 0~9 10~150° 160~300° 0~240° 0~15 300~5000spm 0~15 150~200	18 25 50 110 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 7 100 270 105 112 165 0 30000 0 175	EPHKN All All All All All All All All All Al	II II II II II II I I I I I I I I I I	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E201 E201 E302 E402 E402 E403 E501 P. oFF Eval Note: 1. Sew 2. Turr	Model type of Motor over Hardware dr Voltage too Voltage too Current cirr Oz circuit : Magnet circu over curren Abnormal mo Communicatio Operation in Pedal ID far Pedal zero p Safety switt Power off I Trial expire wing abnormal an up E501 fault	orror oad vers fault high low uit fault ault terror cor operation on error uner failure ult bosition fault ch fault bisplay ed tion (speed electror when: sure it is m	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off Trial expired magnet work abnormal) : in th rmal to switch detection, tem	Tailure b ii ox model C I I i b b E C C P P S S S S S S S S S S S S S S S S	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be- locked completely; f materials are too thick; lectrical signal detection signal whether the norm urrent detection loop system is work roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether 1 ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. f electric engine signal is matched. f operation box plug is well contacted; f operation box components are damaged. o check whether the operating box is damaged. edal connection is losen. he peedal is damaged or it is not under stop state whore ortection. at down the head or check turned up switch. ait for power supply to resume. ontact the dealer processing erface view model is correct; n change the P-28 parameters;
62 63 64 65 66 67 68 69 70 71 77 74 77 75 79 80 884 85 866 87	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reverse needle lift function Reverse needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Thread pressing actuation angle Needle position adjustment Reverse needle of sewing Needle position adjustment Aggravating function/ Machine needle emphasis function Aggravating function Suction angle of shear line Power angle of shear line	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Travel relative to medium pedal Pedal position upon start trimming with presser foot function Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid 1'9: Three Intensity Adjustment Thread pressing release angle Needle position adjustment S: restore the current level factory parameters S: restore the current level factory parameters S: key execution highest speed of sewing Needle wear through clot when used 0: invalid; 1 ~ 15 strength regulation 0: invalid; 1 ~ 15 strength regulation 0: invalid; 1 ~ 15 strength regulation 10: invalid; 1 ~ 15 strength regulation 11 Fo set pover angle of shear line To s	(0, 1°) 10~100 (0, 1°) 10~150 (0, 1°) -100~-10 (0, 1°) 5~50 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) 120~240 0/1 0~45° 0~9 10~150° 160~300° 0~15 0~15 0~15 0~15 0~15 150~300 300~360	18 25 50 110 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -30 10 -60 175 112 165 0 4000 3000 0 0 175 260 340	EPHKN All All All All All All All All All Al	П П П П П П П П П П П П П П	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E201 E201 E302 E402 E402 E403 E501 P. oFF Eval Note: 1. Sew 2. Turr	Model type of Motor over Hardware dr Voltage too Voltage too Current cirr Oz circuit : Magnet circu over curren Abnormal mo Communicatio Operation in Pedal ID fan Pedal zero p Safety switt Power off I Trial expire wing abnormal ac	orror oad vers fault high low uit fault ault terror cor operation on error uner failure ult bosition fault ch fault bisplay ed tion (speed electror when: sure it is m	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off Trial expired magnet work abnormal) : in th	Tailure b ii ox model C I I i b b E C C P P S S S S S S S S S S S S S S S S	f electric engine signal detecting device has beer roken; f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be- locked completely; f materials are too thick; lectrical signal detection signal whether the norm urrent detection loop system is work roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether 1 ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. f electric engine signal is matched. f operation box plug is well contacted; f operation box components are damaged. o check whether the operating box is damaged. edal connection is losen. he peedal is damaged or it is not under stop state whore ortection. at down the head or check turned up switch. ait for power supply to resume. ontact the dealer processing erface view model is correct; n change the P-28 parameters;
62 63 64 65 66 67 68 69 70 71 72 73 74 75 79 80 83 84 85 86 87 88	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Thread pressing release angle Needle position adjustment return to factory-set parameter highest speed of sewing Aggravating function/ Machine needle emphasis function Suction angle of shear line Power angle of shear line Power angle of shear line loosen pressing actuation angle	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function is invalid Thread pressing release angle Thread pressing release angle Needle position adjustment 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to Sbutton, select yes, then press the S key execution highest speed of sewing Needle wear through cloth when used 0: invalid; 1 ~ 15 strength regulation To set suction angle of shear line	(0, 1°) 10~100 (0, 1°) 10~150 (0, 1°) -100~-10 (0, 1°) 5~50 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) -100~-10 (0, 1°) 120~240 0/1 0~45° 0~9 10~150° 160~300° 0~240° 300~5000spm 300~5000spm 0~15 200~300	18 25 50 110 -30 10 -30 10 -30 175 177 0 20 7 100 270 165 112 165 0 4000 3000 0 260	EPHKN A11 A11 A11 A11 A11 A11 A11 A11 A11 A1	П П П П П П П П П П П П П П	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E201 E201 E302 E402 E402 E403 E501 P. oFF Eval Note: 1. Sew 2. Turr 3. If t	Model type of Motor over Hardware dr Voltage too Voltage too Current cirr Oz circuit : Magnet circu over curren Abnormal mo Communicatio Operation in Pedal ID fan Pedal zero p Safety switt Power off I Trial expire wing abnormal an up E501 fault the above accord	error oad vers fault high low uit fault rault it error cor operation on error mer failure ilt bisplay id tion (speed electror when: sure it is me ling to check the pr	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off Trial expired magnet work abnormal) : in th ormal to switch detection, tem roject cannot rule out fault, p	Tailure b ii ox model C I I i b b E C C P P S S S S S S S S S S S S S S S S	f electric engine signal detecting device has beer roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be- locked completely; f materials are too thick; lectrical signal detection signal whether the norma urrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether f ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. detrice engine signal is matched. f operation box plug is well contacted; f electric engine signal is matched. f operation box components are damaged. o check whether the operating box is damaged. edal connection is loosen. he pedal is damaged or it is not under stop state whore origention. it down the head or check turned up switch. ait for power supply to resume. ontact the dealer processing erface view model is correct; n change the P-28 parameters; echnical support.
88 89 92	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reverse needle lift function Reversal of needle lift angle Thread clamp strength adjustment Thread pressing actuation angle Thread pressing release angle Needle position adjustment return to factory-set parameter highest speed of sewing Aggravating function/ Machine needle emphasis function Suction angle of shear line Power angle of shear line Ioosen pressing release angle loosen pressing release angle Pedal presser foot lift confirm time	stitch compensation Pedal position upon start Travel relative to medium pedal Pedal position upon start acceleration Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal position upon start tramming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread trimming 0: unavailable 1: available Reversal of needle lift angle Adjust the thread clamp strength size 0: Clip line function aigustment Thread pressing actuation angle Thread pressing actuation angle Thread pressing actuation angle Needle position adjustment 5: restore the current level factory parameters 8: restore the current	(0, 1°) 10~100 (0, 1°) 10~150 100~10 (0, 1°) -100~-10 (0, 1°) 5~50 (0, 1°) -100~-10 (0, 1°) 100~-10 (0, 1°) 1100~-10 (0, 1°) 120~240 0/1 0~45° 0~9 10~150° 160~300° 0~240° 0~15 300~5000spm 0~15 300~300spm 0~15 150~200 200~300 300~360	18 25 50 110 -30 10 -30 10 -30 10 -30 10 -30 10 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -60 175 260 340 180	EPHKN All All All All All All All All All Al	II II II II II II II II I I I	E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151 E201 E302 E402 E403 E501 P. oFF Eval Note: 1. Sew 2. Turr 3. If t 6. Access NO 1	Model type of Motor over Hardware dr Voltage too Current circu Oz circuit Magnet circu over curren Abnormal mo Communicatii Operation in Pedal ID fan Pedal zero p Safety switt Power off Trial expir wing abnormal ac n up E501 fault the above accord scores	error oad vers fault high low uit fault ault tit error cor operation on error uner failure llt bisplay d tion (speed electrr when: sure it is n ling to check the p name Albox	Unable identify operating b type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current detection error Current or voltage detectio Sci circuit error Sci circuit error Pedal verification fault The pedal zero position ove Safety switch effective Power off Trial expired xmagnet work abnormal) : in thormal to switch detection, tem roject cannot rule out fault, p	Tallure b i ox model C I I i b E C C P C C C C C C C C C C C C C	f electric engine signal detecting device has beer roken: f sewing machine handwheel correctly installed. heck operating box f electric engine plug is well contacted; f machine head or thread-cutting mechanism has be- locked completely; f materials are too thick; lectrical signal detection signal whether the norma urrent detection loop system is workin roperly; Whether the damage to the device driver. ystem into line voltage is too high; raking resistance are working properly; ystem voltage detection circuit are working properly f the voltage on the inlet wire is too low Whether f ystem voltage detection circuit the normal work. urrent detection loop system is working properly. z circuit system is working properly. f machine head magnet suffers short circuit lectromagnet circuit is working properly. detrice engine signal is matched. f operation box plug is well contacted; f electric engine signal is matched. f operation box components are damaged. o check whether the operating box is damaged. edal connection is loosen. he pedal is damaged or it is not under stop state whore origention. it down the head or check turned up switch. ait for power supply to resume. ontact the dealer processing erface view model is correct; n change the P-28 parameters; echnical support.

show frame numbers	Item Name	unit	show frame numbers	Item Name	unit
JJ	Plan number	piece	U6	Motor initial Angle	limit
U1	speed of motor control	rpm	U7	Master control program version/ Head type	/
U2	Motor Current	0.01A	U8	Head type/ Master control program version	/
U3	Motor Voltage	V	U9	Dsp no	/
U4	Pedal voltage	0.01V	vEr	Operation box version of the program	/
U5	Mechanical Angle with	limit	TYPE	Software no	/

Execute starting reinforcing-sewing 2 times, to and fi

Execute starting reinforcing-sewing 1 times, to and fro.

Described

4.Operation box use Function

Starting

sewing

reinforcing

Button

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parameter parameter								
Teaching function	Π		he teaching function. (for liquid cr					
Sewing set program	↓ P1 ↓ P15	The number of ne	edles sewing set, Set up a total of 3	15 segment needle number P1^PF. (for liquid crystal panel)				
Clip the line	-)((Clip the line str	rength fast set					
intensity				will automatically switch to speed set. Simple seam, free seam				
speed key		Speed up. Keeping	cation of liquid crystal panel) pressing to increase speed, the display ication of liquid crystal panel)	will automatically switch to speed set. Simple seam, free seam				
After the	e pedal shear		ent segment number teaching (section nu from the show and save the needle nume	merical covering the original mode). rical, before returning to the fixed length of stitch pattern.				
5. Error Error			Dessible measure	Chalting and two-trant				
Error Code		ontents	Possible reasons	Checking and treatment				
Error			Possible reasons Motor position sensor signal failure	Checking and treatment If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed.				
Error Code E011 E012 E013	Ca	al error		If electric engine plug is well contacted; if electric engine signal detecting device has been broken;				
Error Code E011 E012 E013 E014	Co Motor signa	al error Prror	Motor position sensor signal failure Unable identify operating box model	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed.				
Error Code E011 E012 E013 E014 E015 E021 E022	Co Motor signa Model type e	al error error	Motor position sensor signal failure Unable identify operating box model type motor stall	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely;f materials are too thick;				
Error Code E011 E012 E013 E014 E015 E021 E022 E023	Co Motor signe Model type e Motor over	al error error load ivers fault	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely;f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112	Co Motor signa Model type e Motor over! Hardware dr!	al error error load ivers fault high	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112	Co Motor signa Model type o Motor over! Hardware dr: Voltage too	al error error load ivers fault high low	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly.				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E121	Co Motor signa Model type of Motor over Hardware dri Voltage too	al error error load ivers fault high low wuit fault	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly.				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131	Co Motor signa Model type of Motor over Hardware dri Voltage too Voltage too Current circ	al error error load ivers fault high low cuit fault fault	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly.				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133	Constraints for the second sec	al error error load ivers fault high low cuit fault fault it error	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely:f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly;Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. 0z circuit system is working properly. If machine head magnet suffers short circuit				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E133 E151	Constraints for the second sec	al error error load ivers fault high low cuit fault fault it error	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly.				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E133 E151 E201 E211	Constraints for the second sec	al error error load ivers fault high low cuit fault fault tit error t tor operation	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. If detection loop system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. If electrical signal is normal. If electric engine plug is well contacted;				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E133 E151 E201 E211 E212	Communication	al error error load ivers fault high low cuit fault fault tit error t tor operation	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly. If electric engine plug is well contacted; If electric engine plug is well contacted; If electric engine signal is matched. if operation box plug is well contacted;				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E151 E201 E211 E212 E33 E151 E201 E312 E33 E34 E35 E301	Communication	al error error load ivers fault high low cuit fault fault fault tor operation on error ner failure	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detection error Sci circuit error	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly. If electric engine plug is well contacted; If electric engine plug is well contacted; If electric engine plug is well contacted; if operation box plug is well contacted; if operation box plug is well contacted; if operation box components are damaged. To check whether the operating box is damaged. Pedal connection is loosen.				
Error Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E151 E201 E212 E33 E151 E201 E212 E301 E302	Communication Commun	al error error load ivers fault high low cuit fault fault fault tor operation on error ner failure	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detection error Sci circuit error Sci circuit error	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. 0z circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly. If electric engine plug is well contacted; If electric engine plug is well contacted; if operation box plug is well contacted; if operation box plug is well contacted; if operation box components are damaged.				
Brror Code E011 E012 E013 E014 E015 E021 E022 E023 E101 E111 E112 E121 E122 E131 E151 E201 E211 E212 E301 E301 E302 E402 E403 E501	Communication Abnormal model and the second Motor oversises Motor oversises Motor oversises Mathematical and the second Voltage too Current circuit of Magnet circuit of Magnet circuit of Over current Abnormal mod Communication Operation in Pedal ID fat Pedal zero p Safety switce	al error error load ivers fault high low cuit fault fault fault t t tor operation on error nner failure alt cossition fault ch fault	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detection error Sci circuit error Pedal verification fault	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. Oz circuit system is working properly. If machine head magnet suffers short circuit Electromagnet circuit is working properly. Current detection loop system is working properly. If mechine head magnet suffers short circuit Electrical signal is normal. If electric engine plug is well contacted; If electric engine signal is matched. if operation box plug is well contacted; if operation box components are damaged. To check whether the operating box is damaged. Pedal connection is loosen. The pedal is damaged or it is not under stop state when correction. Put down the head or check turned up switch.				
Brror Code E011 E012 E013 E014 E015 E021 E022 E023 E021 E022 E023 E101 E111 E112 E121 E122 E131 E121 E123 E151 E201 E212 E301 E302 E402 E403	Communication Commun	al error error load ivers fault high low cuit fault fault fault tor operation on error nner failure ilt costion fault ch fault Display	Motor position sensor signal failure Unable identify operating box model type motor stall motor overload Current detection abnormal Driving hardware error High input voltage Brake circuit fault Voltage detection error Actual low voltage Voltage detection is wrong Current detection abnormal Oz circuit fault Over current magnet circuit Current detection error Current or voltage detection error Sci circuit error Pedal verification fault The pedal zero position over range	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed. Check operating box If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely; f materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working properly;Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly. If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work. Current detection loop system is working properly. If machine head magnet suffers short circuit Electrical signal is normal. If electric engine plug is well contacted; if operation box components are damaged. Pedal connection is loosen. The pedal is damaged or it is not under stop state when correction.				

3.	System	Info
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Spare Parts List



GF-1107-147 MH



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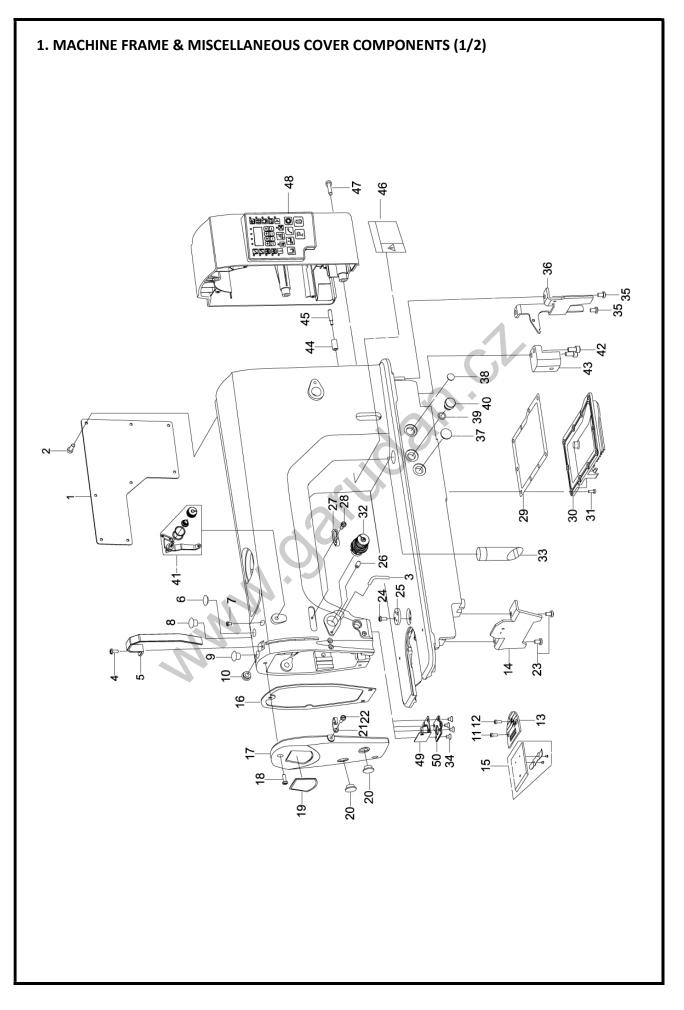
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CONTENT

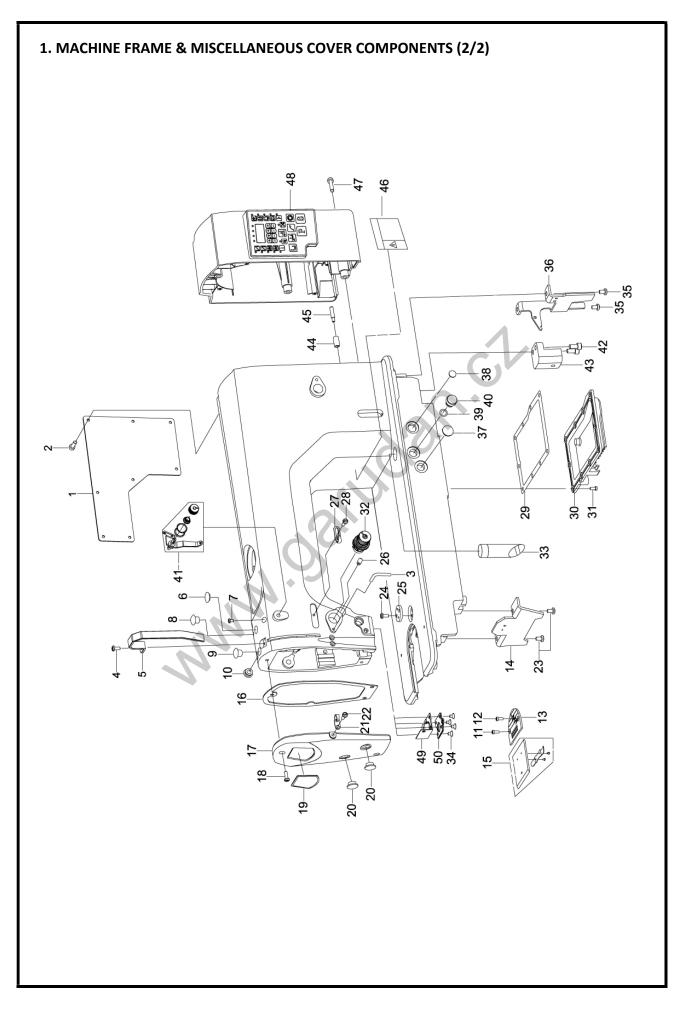
1. MACHINE FRAME & MISCELLANEOUS COVER COMPONENTS (1/2)
1. MACHINE FRAME & MISCELLANEOUS COVER COMPONENTS (2/2)
2. MAIN SHAFT & THREAD TEKE-UP COVER COMPONENTS
3. HORIZONTAL FEED & VERTICAL FEED AND HOOK DRIVING SHAFT COMPONENTS (1/2) 10
3. HORIZONTAL FEED & VERTICAL FEED AND HOOK DRIVING SHAFT COMPONENTS (2/2) 12
4. HANG LIFTER & TENSION RELEASE COMPONENTS
5. THE NEEDLE BAR SWING COMPONENTS
6. FEED ADJUST MECHANISM COMPONENTS
7. PRESSER FOOT COMPONENTS OF OIL PLATE KNEE LIFT
8. BOBBIN WINDER COMPONENTS
9. AUTOMATIC REVERSE FEED COMPONENTS
10. THREAD STAND COMPONENTS
11. WIPER COMPONENTS
12. THREAD TRIMMER COMPONENTS (ROTATION KNIFE) (1/2)
12. THREAD TRIMMER COMPONENTS (ROTATION KNIFE) (2/2)
13. OIL LUBRICATION COMPONENTS
14. ACCESSORIE PART COMPONENTS
MMM -

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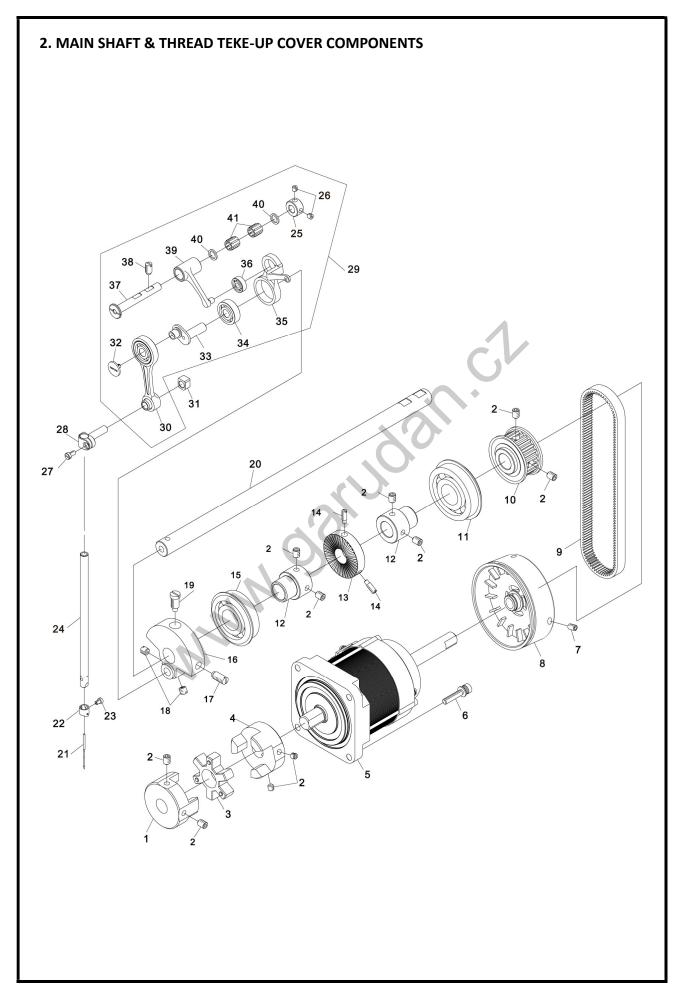


REF. NO	PART. NO	NAME OF THE PART	QTY
1	20003404	Side plate	1
2	10008972	Screw SM3/16"x28 L=10	7
3	10022343	Arm Thread Guide	1
4	10022343	Screw SM3/16"x28 L=10	1
5	20003407	Thread Take- up Lever Cover	1
6	10012147	Rubber Plug	1
7	10013541	Screw SM11/64"x40 L=12	1
8	10008943	Rubber Plug	2
9	10003943	Rubber Plug	2
10	10012128	Rubber Plug	1
10	10012128	Screw SM11/64"x40 L=6.8	1
11	10012463	Screw SM11/64"x40 L=6.8	1
12	10012403	Needle Plate	1
14	10012135	Front Plate	1
15	10013706	Slide Plate ASM	1
16	10022846	Face Plate Packing	1
10	20006907	Pace Plate	1
18	10008972	Screw SM3/16"x28 L=10	3
19	10005468	Face plate Adorning	1
20	10008977	Rubber Plug	2
20	10008937	Arm Thread Guide B	1
22	10008973	Screw SM11/64"x40 L=6	1
23	10012142	Screw SM15/64"x28 L=9	2
24	10004374	Screw SM11/64"x40 L=4.8	2
25	10004373	Ruler Stop Seat	1
26	10010593	Screw SM15/64"x28 L=7.5	1
27	10008940	Arm Thread Guide A	1
28	10008973	Screw SM11/64"x40 L=6	1
29	10012143	Gear Box Packing	1
30	10012145	Gear Box Cover	1
31	10012146	Screw SM3/16"x28 L=15	10
32	10013000	Thread Tenston Asm	1
33	10012138	Gear Box Floater	1
34	10011049	Screw M4x8	4
35	10012142	Screw SM15/64x28 L=9	2
36	10012148	Back Plate	1
37	10012128	Rubber Plug	1

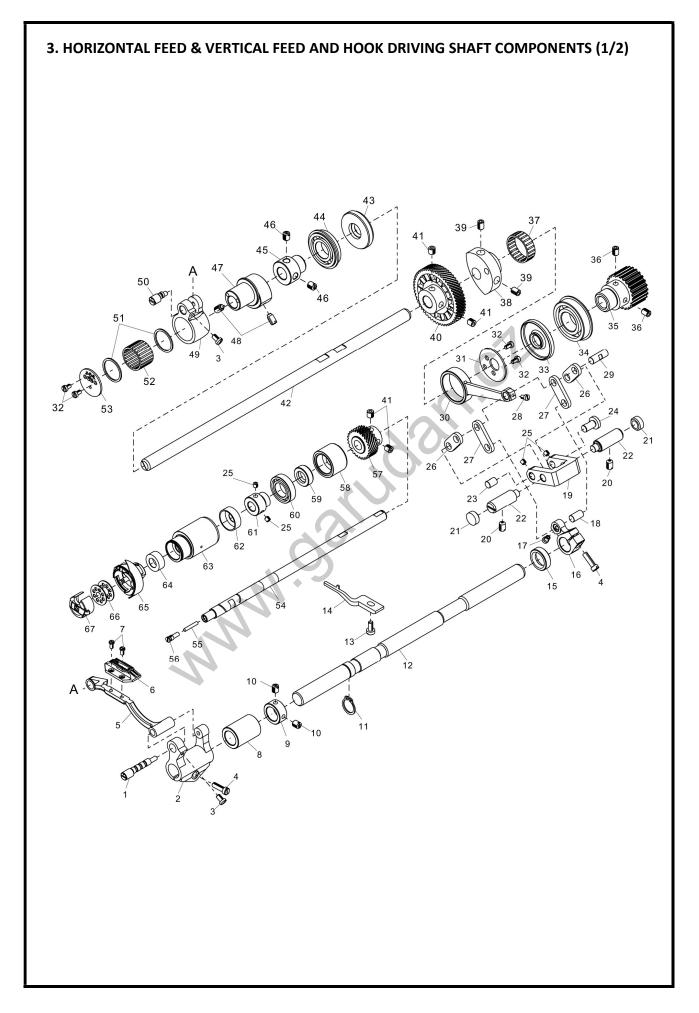
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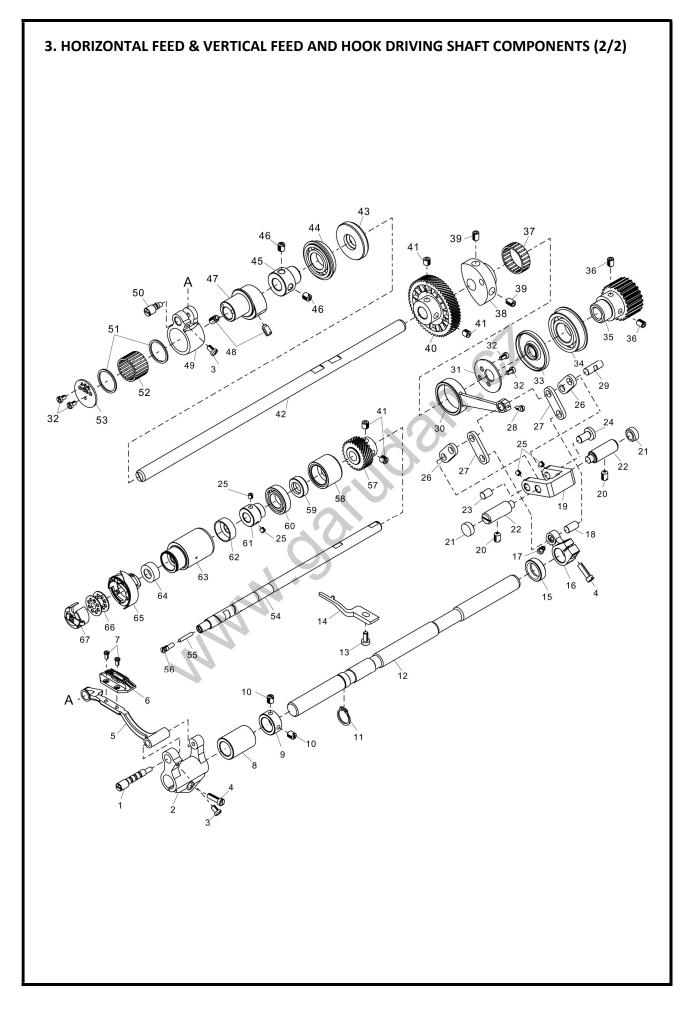
	PART. NO	NAME OF THE PART	QTY
38	10012136	Rubber Plug	1
39	10012139	Rubber Ring	1
40	10012141	Air-discharging	1
41	10012867	Thread Tension Guide	1
42	10011313	Screw M6x12	2
43	10022344	Revers Feed Solenoid Base	1
44	10013621	Revers Feed Lever Stopper	1
45	10012149	Screw	1
46	10008936	Saftey Label	1
47	10006157	Screw	4
48	10038018	Controll Box	1
49	10022342	Rulley Cover	1
50	10022848	Rlate	1
		ando	



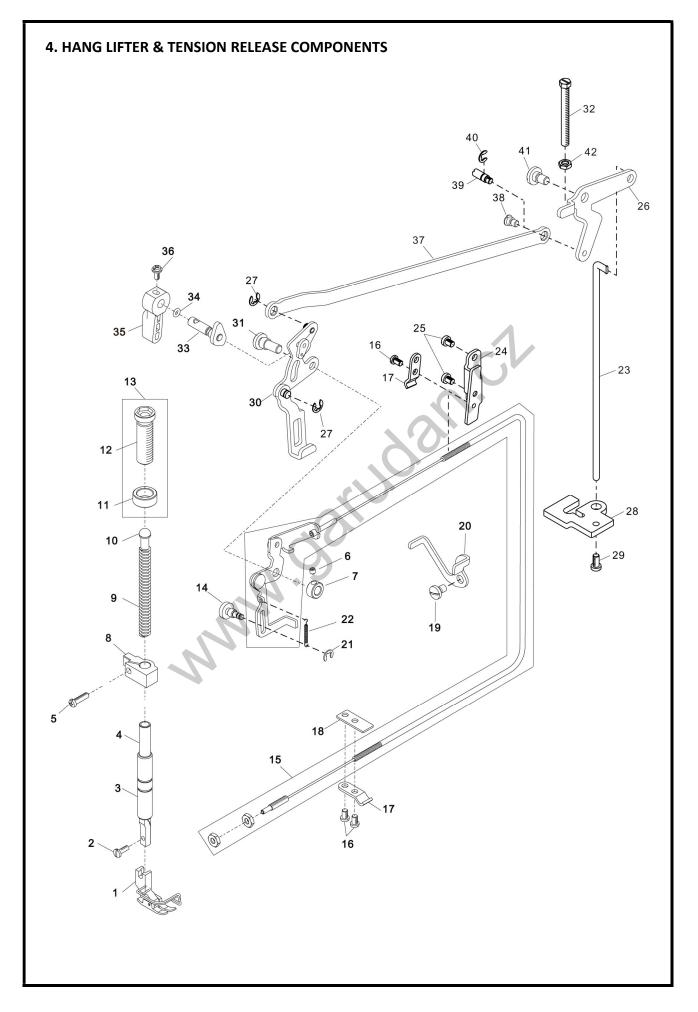
REF. NO	PART. NO	NAME OF THE PART	QT
1	10012613	Coupling	1
2	10009187	Screw	10
3	10011227	Rubber ring	1
4	10012615	Coupling	1
5	10038017	Motor	1
6	10006157	Screw ASM.	4
7	10002436	Screw	2
8	20010974	Head wheel ASM.	1
9	10012497	Cog belt	1
10	10006241	Belt pulley	1
11	10025862	Bearing	1
12	10012668	Bearing bush	2
13	10013112	Driving wheel	1
14	10011062	Screw	2
15	10025881	Bearing	1
16	10012607	Crank	1
17	10010082	Screw	1
18	10005020	Screw	2
19	10010545	Screw	1
20	10012663	Main shaft	1
21	10036288	Needle DB×1 14#	1
22	10013181	Thread guide	1
23	10013182	Screw	1
24	10022347	Needle bar ASM.	1
25	10005745	Closing ring	1
26	10013590	Screw	2
27	10030286	Screw	1
28	10010590	Joint pin	1
29	10022346	Thread take-up lever Asm.	1
30	10005785	Connecting rod ASM.	1
31	10010586	Sliding block	1
32	10010537	Screw	1
33	10023444	Crank	1
34	10003607	Bearing	11
35	10005791	Thread take-up lever	1
36	10009784	Bearing	1
37	10005794	Pin	1
38	10010083	Screw	1
39	10005788	Connecting rod	1
40	10005786	Washer	2
41	10005747	Bearing	2



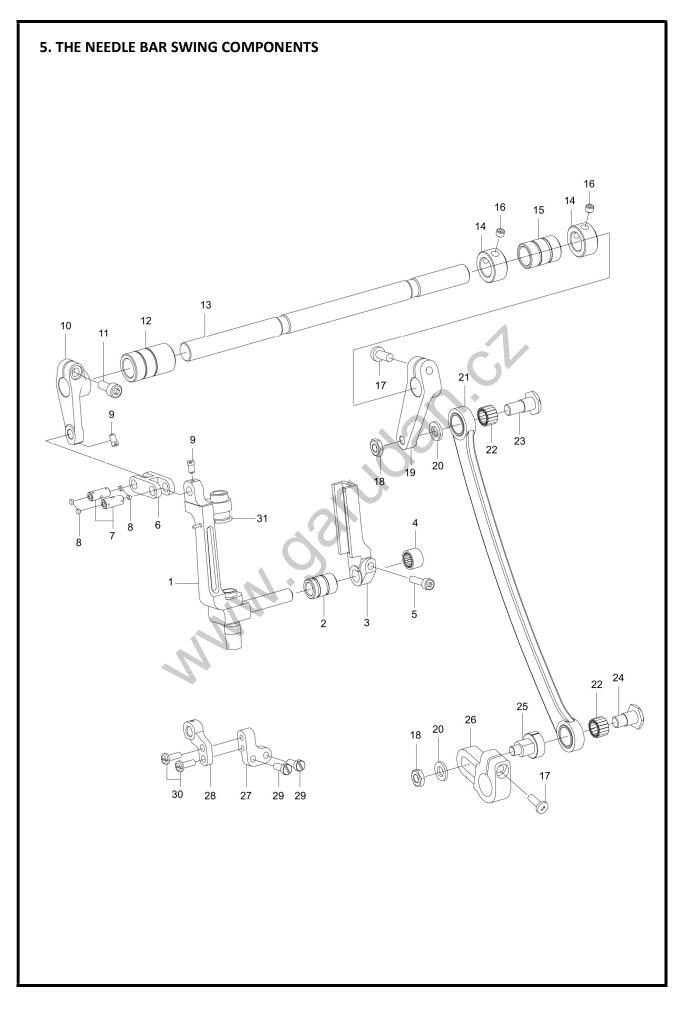
REF. NO	PART. NO	NAME OF THE PART	QT
1	10012490	Pin	1
2	10012540	Feed bar driving crank	1
3	10010074	Screw	2
4	10010095	Screw	2
5	10012531	Feed bar ASM.	1
6	10022849	Feed dog	1
7	10010099	Screw	2
8	10013006	Shaft sleeve	1
9	10006134	Closing ring	1
10	10012162	Screw	2
11	10003290	Closing ring	1
12	10032116	Feed rocker shaft	1
13	10010066	Screw	1
14	10031259	Positioning finger	1
15	10012536	Oil seal	1
16	10012492	Crank	1
17	10013015	Screw	1
18	10010096	Pin	1
19	10005746	Feed adjusting	1
20	10010506	Screw	2
21	10012495	Rubber plug	2
22	10012532	Pin	2
23	10010087	Pin	1
24	10012459	Pin	1
25	10013590	Screw	5
26	10010075	Connecting plate	2
27	10012537	Connecting plate	2
28	10010071	Screw	1
29	10010069	Pin	1
30	10005787	Connecting rod	1
31	10005742	Cover plate	1
32	10010643	Screw	4
33	10012538	Oil seal	1
34	10025882	Bearing	1
35	10012535	Gear	1
36	10009187	Screw	2
37	10005792	Bearing	1



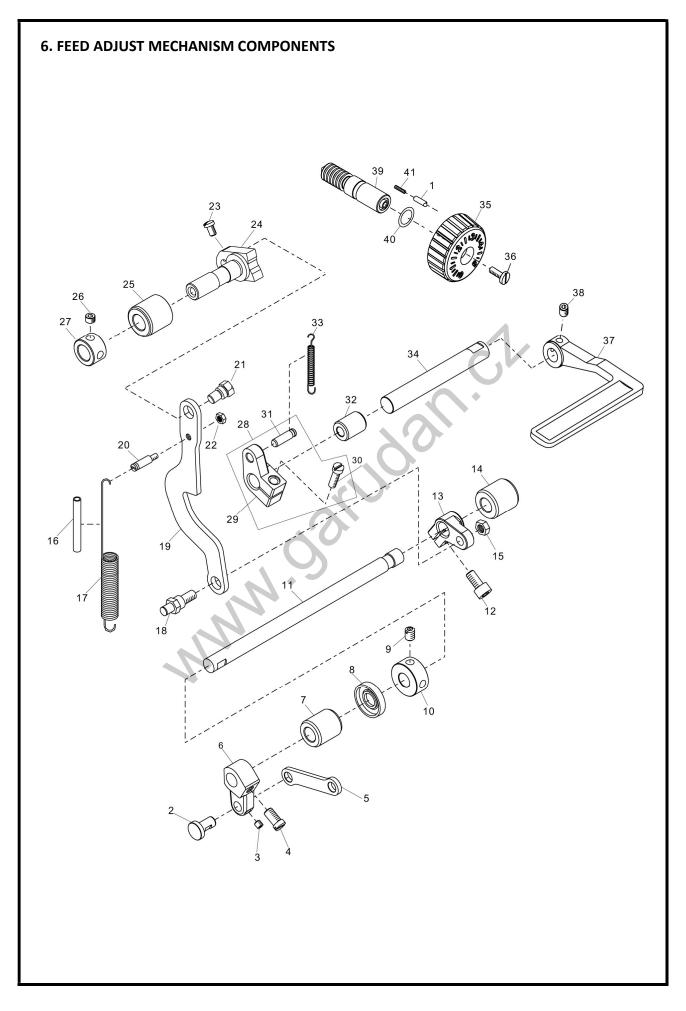
REF. NO	PART. NO	NAME OF THE PART	QT
38	10005740	Feed drive eccentric cam	1
39	10010678	Screw	2
40	10012462	Gear	1
41	10008862	Screw	2
42	10012489	Feed driving shaft	1
43	10012533	Oil seal	1
44	10026364	Bearing	1
45	10012501	Bearing bush	1
46	10010065	Screw	2
47	10005750	Cam	1
48	10010083	Screw	2
49	10005789	Crank	1
50	10012498	Pin	1
51	10005790	Closing ring	2
52	10005744	Bearing	1
53	10012503	Cover plate	1
54	10012534	Hook driving shaft	1
55	10010063	Oil wick	1
56	10010064	Screw	1
57	10012554	Gear	1
58	10012678	Shaft sleeve	1
59	10012423	Oil seal	1
60	10026221	Bearing	1
61	10012585	Bearing bush	1
62	10014503	Oil seal	1
63	10014463	Shaft sleeve	1
64	10013029	Oil seal	1
65	10013965	Hook	1
66	10025484	Bobbin	1
67	10006924	Bobbin case	1



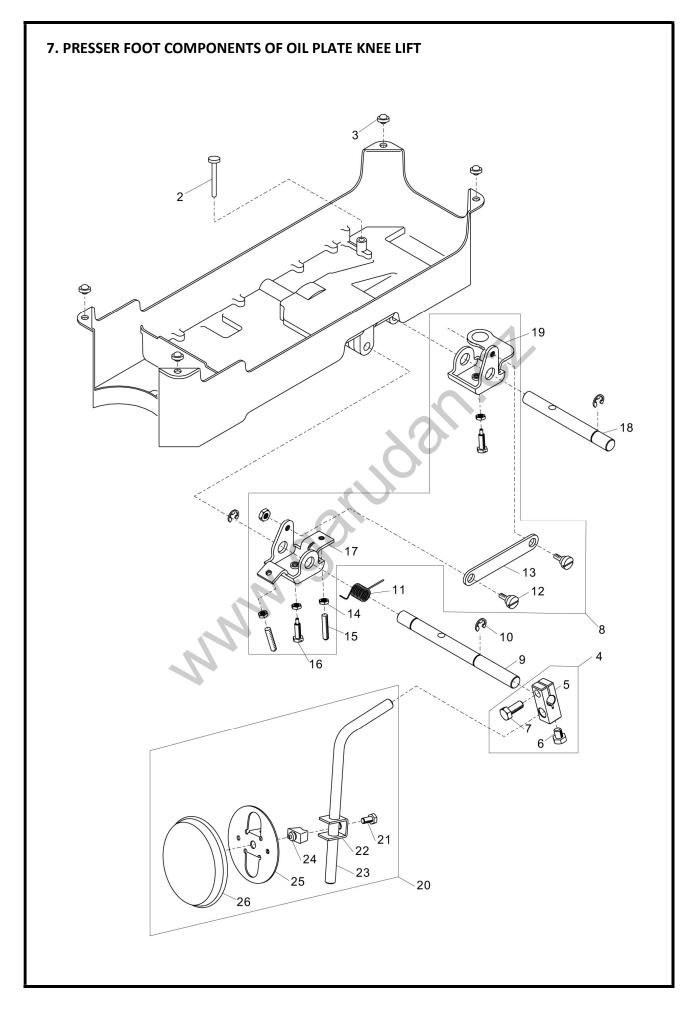
REF. NO	PART. NO	NAME OF THE PART	QT
1	10006112	Presser foot ASM.	1
2	10010650	Screw	1
3	10014141	Bearing support	1
4	10013328	Presser bar	1
5	10013567	Screw SM11/64"x 40 L=15.8	1
6	10011887	Screw SM9/64"x 40 L=4	2
7	10013375	Collar	1
8	10022349	Presser guide bar bracket	1
9	10004473	Spring	1
10	10012426	Presser guide bar	1
11	10011023	Nut	1
12	10013325	Screw	1
13	10021342	Screw ASM.	1
14	10022351	Pin	1
15	10022855	Loosing line ASM.	1
16	10012130	Screw	3
17	10012445	Wire holder	2
18	10033588	Base plate	1
19	10012181	Screw	1
20	10022854	Tension Release Return	1
21	10003248	Closing ring	1
22	10022508	Spring	1
23	10030397	Connecting rod vertical	1
24	10005881	Fixing shutter	1
25	10012621	Screw	2
26	10022853	Lifting lever link	1
27	10010649	Closing ring	2
28	10012429	Guide plate	1
29	10012637	Screw	1
30	10005685	Hand lifter link ASM.	1
31	10022350	Pin	1
32	10012633	Screw	1
33	10013809	Hand lifter CAM ASM.	1
34	10010027	O-ring	1
35	10011064	Hand lifter	1
36	10010016	Screw	1
37	10022852	Lifting lever connecting rod	1
38	10005882	Screw	1
39	10013109	Screw	1
40	10013038	Closing ring	1
41	10012430	Screw	1
42	10012625	Nut	1



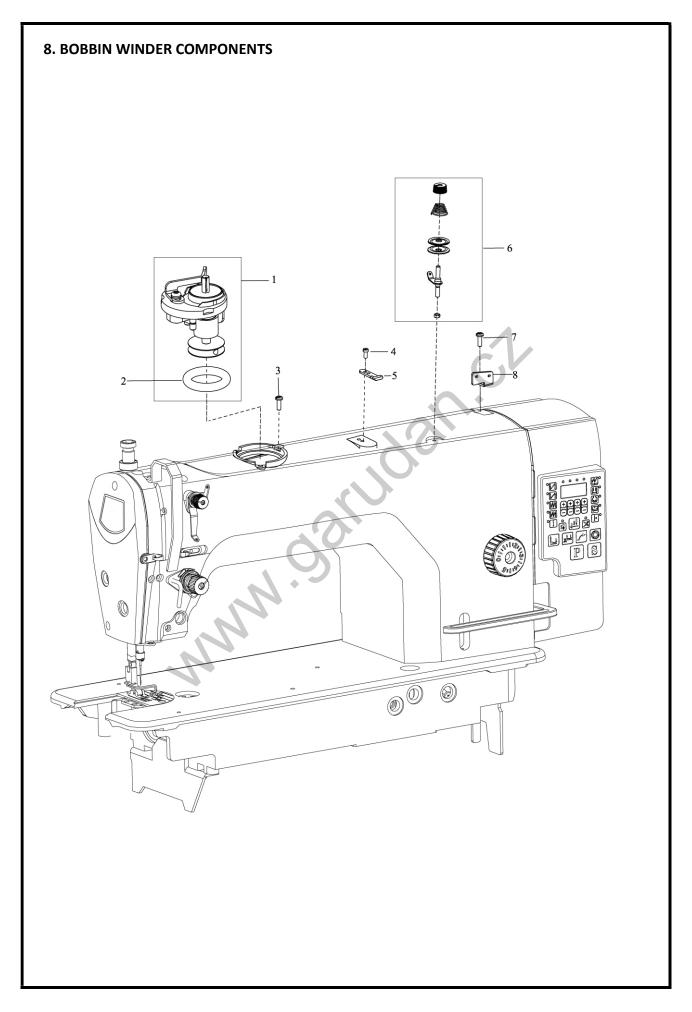
REF. NO	PART. NO	E NEEDLE BAR SWING COMPONENTS NAME OF THE PART	QTY
1	10022509		1
2		Rocking base compl.	1
	10022340	Bushing	
3	10023449	Slide block guide	1
4	10003549	Bearing	1
5	10014395	Screw M4×14	1
6	10023454	Driving link	1
7	10022856	Link pin	2
8	10022363	Plug	4
9	10022354	Screw SM9/64"× 40 L=6	2
10	10022355	Driving crank front	1
11	10004611	Screw SM3/16"× 28 L= 12	1
12	10022338	Bushing	1
13	10022356	Needle feed shaft	1
14	10011284	collar	2
15	10022339	Bushing	1
16	10012014	Screw M5×4	2
17	10010030	Screw SM3/16"×28 L=12	2
18	10012855	Nut M6×3.5	2
19	10022357	Needle feed rod cpmpl	1
20	10022359	Washer	2
21	10022353	Needle feed rod cpmpl	1
22	10014106	Bearing	1
23	10022358	Screw	1
24	10022858	Screw	1
25	10022857	Screw	1
26	10022360	Needle feed arm	1
27	10022362	Guide	1
28	10022361	Guide	1
29	10011794	Screw M4×10	2
30	10012507	Screw M3.5×10	2
31	10008105	Wick	1



REF. NO	PART. NO	NAME OF THE PART	QTY
1	10013870	Pin	1
2	10012459	Connecting pin	1
3	10013590	Screw	1
4	10010092	Screw	1
5	10012634	Connecting plate	1
6	10012681	Crank	1
7	10012629	Shaft sleeve	1
8	10012622	Oil seal	1
9	10003921	Screw	2
10	10012627	Closing ring	1
11	10013867	Adjusting shaft	1
12	10010095	Screw SM3/16"x 28 L=15.5	1
13	10012424	Crank	1
14	10012586	Shaft sleeve	1
15	10012620	Nut	1
16	10007795	Oil pipe	1
17	10031476	Spring	1
18	10012418	Connecting pin	1
19	10040562	Connecting plate	1
20	10012635	Pin	1
21	10013866	Pin	1
22	10010106	Nut	1
23	10010643	Screw SM9/64"x40 L=6	2
24	10012583	Adjustor	1
25	10012626	Shaft sleeve	1
26	10008862	Screw SM1/4"x40 L=5.8	2
27	10012428	Closing ring	1
28	20000150	Crank ASM.	1
29	10012638	Crank	1
30	10010095	Screw	1
31	10010287	Pin	1
32	10012578	Shaft sleeve	1
33	10012676	Spring	1
34	10012419	Reverse feed shaft	1
35	10014418	Knob	1
36	10010281	Screw SM3/16"x28 L=18	1
37	20003414	Reverse feed spanner	1
38	10009187	Screw	1
39	10010286	Screw bolt	1
40	10010240	O-ring	1
41	10013869	Spring	1

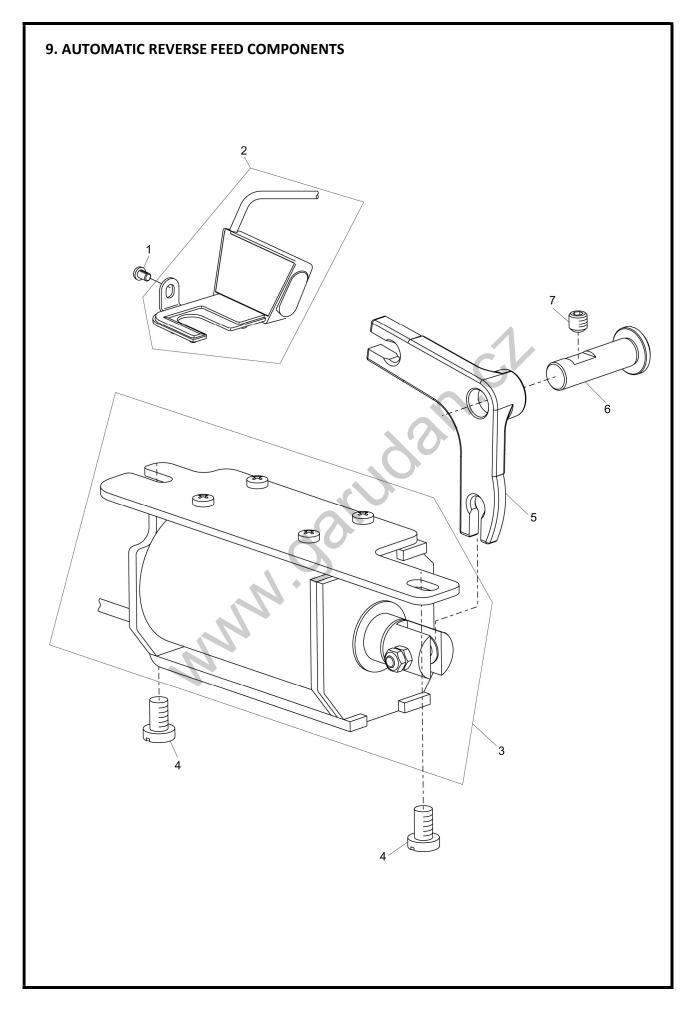


	7. PRESSER FC	OOT COMPONENTS OF OIL PLATE KNEE LIFT	
REF. NO	PART. NO	NAME OF THE PART	QTY
1	10012632	Oil reservoir	1
2	10012631	Knee lifter presser rod	1
3	10013102	Head Gasket	4
4	10002562	Bracket ASM.	1
5	10003896	Bracket	1
6	10002610	Screw	1
7	10002613	Screw	1
8	10024632	Connecting Rod ASM.	1
9	10008450	Knee pressing shaft I	1
10	10002559	Snap ring	3
11	10012677	Spring	1
12	10008465	Screw	2
13	10008464	Connecting Plate	1
14	10003890	Nut	6
15	10003895	Screw	2
16	10003898	Screw	2
17	10008463	Connecting Rod I	1
18	10008466	Knne pressing shaft II	1
19	10008383	Connecting Rod II	1
20	10009985	Knee pressing plate ASM.	1
21	10003894	Screw	1
22	10003897	Knee pressing plate holder	1
23	10003901	Knee pressing plater rod	1
24	10003900	Knee pressing plate rubber	1
25	10003891	Knee pressing plate	1
26	10004223	Knee pressing cover	1

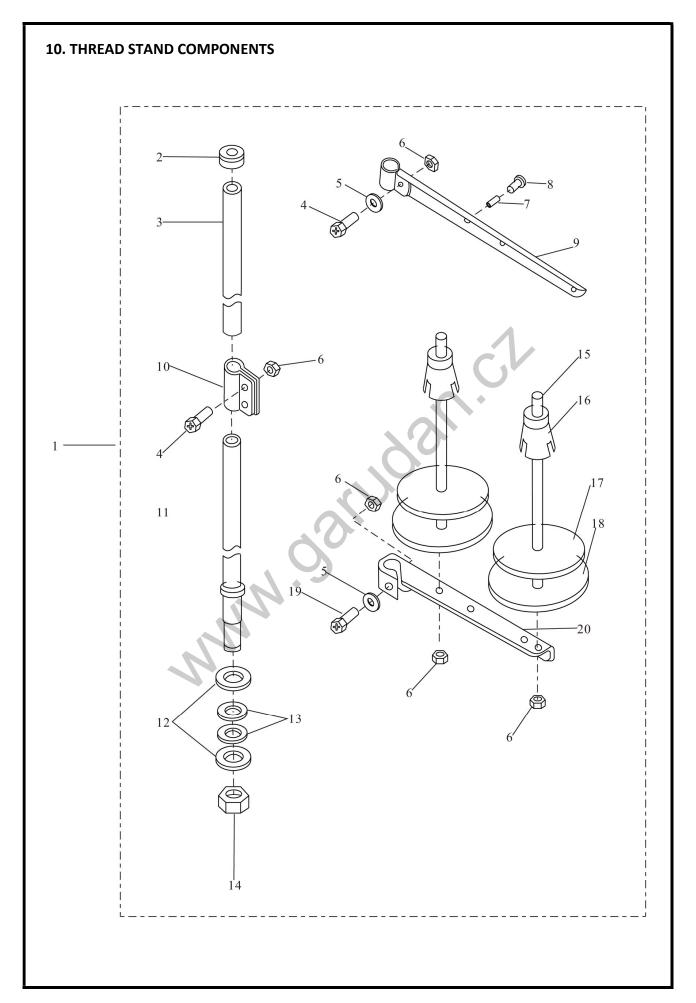


	8	. BOBBIN WINDER COMPONENTS	
REF. NO	PART. NO	NAME OF THE PART	QTY
1	10013875	Bobbin winder ASM.	1
2	10008773	Rubber ring	1
3	10004380	Screw	3
4	10013269	Screw	2
5	10011149	Thread cutter	1
6	10013064	Bobbin thread tension ASM.	1
7	10011158	Screw	1
8	10011200	Thread guide plate	1

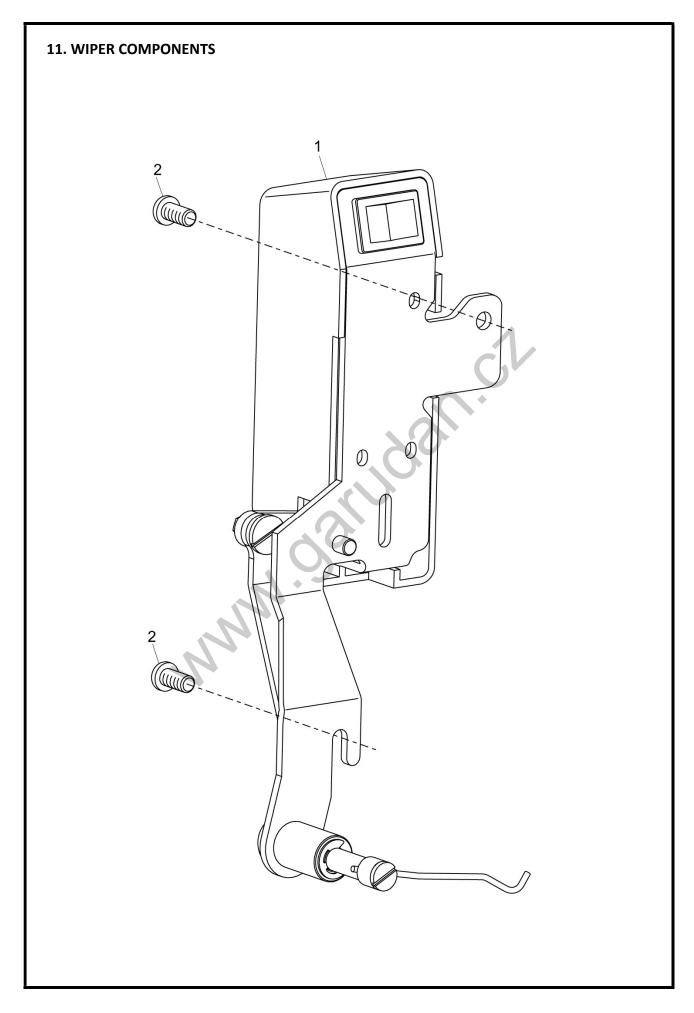
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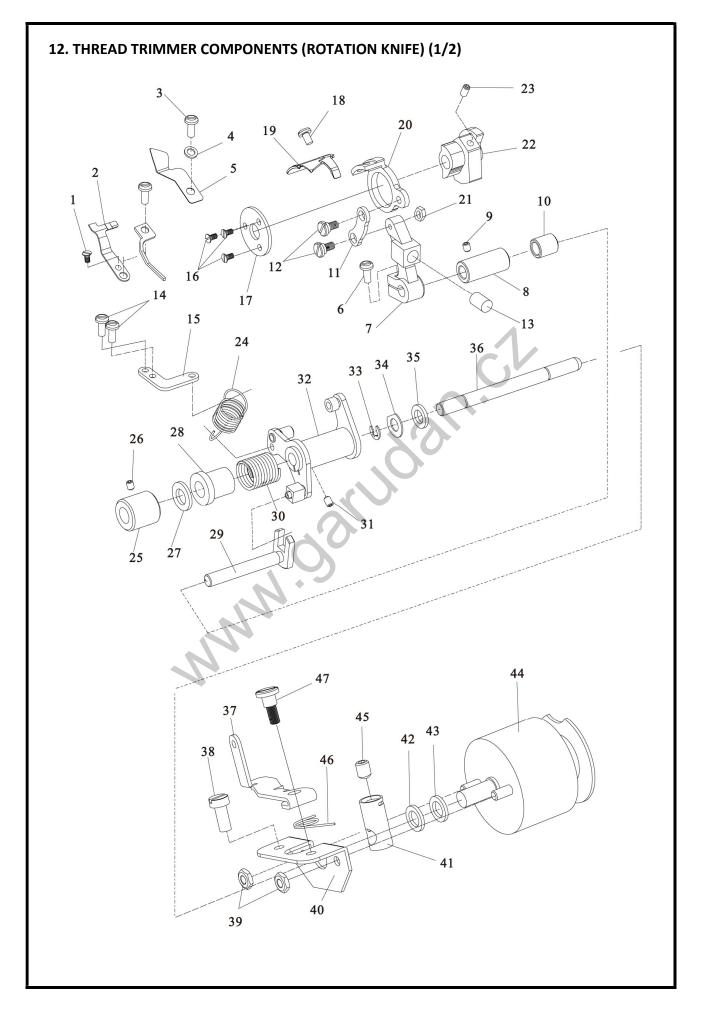
REF. NO 1 2			
2	PART. NO	NAME OF THE PART	QTY
	10008934	Screw	1
-	10038021	Option Switch ASM.	
3	10034506	Electromagnet ASM.	
4	10012142	Screw	
5	10012587	Washer	
6	10012628	Crank Pin	
7	10013538	Screw	
	NNN	oandah	



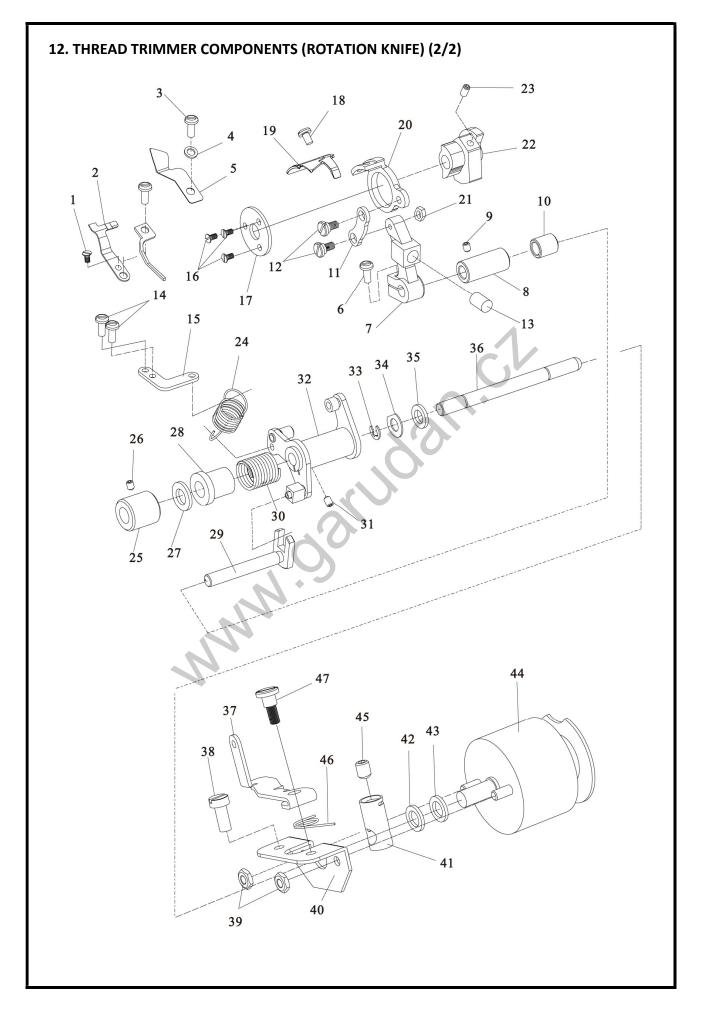
REF. NO	PART. NO	NAME OF THE PART	QTY
1	10007130	Thread Stand ASM.	
2	10004282	Column Cap	1
3	10004293	Column Pipe(Upper)	1
4	10003301	Screw M5x14	2
5	10003022	Washer	5
6	10002953	Nut M5	5
7	10004289	Thread Guide Pipe	1
8	10004285	Thread Guide Bushing	1
9	10004298	Thread Hanger(Upper)	1
10	10004286	Column Pipe Connector	1
11	10004291	Column Pipe (Lower)	1
12	10004290	Washer 16×30×1.5	2
13	10004295	Washer 16.5×27.5×3	2
14	10002953	Nut M5	1
15	10004288	Spool	2
16	10004287	Spool Cushion	2
17	10004281	Soft Cushion Of Thread Plate	2
18	10004299	Thread Plate	2
19	10003312	Screw M5x30	1
20	10004284	Thread Hanger(Lower)	1



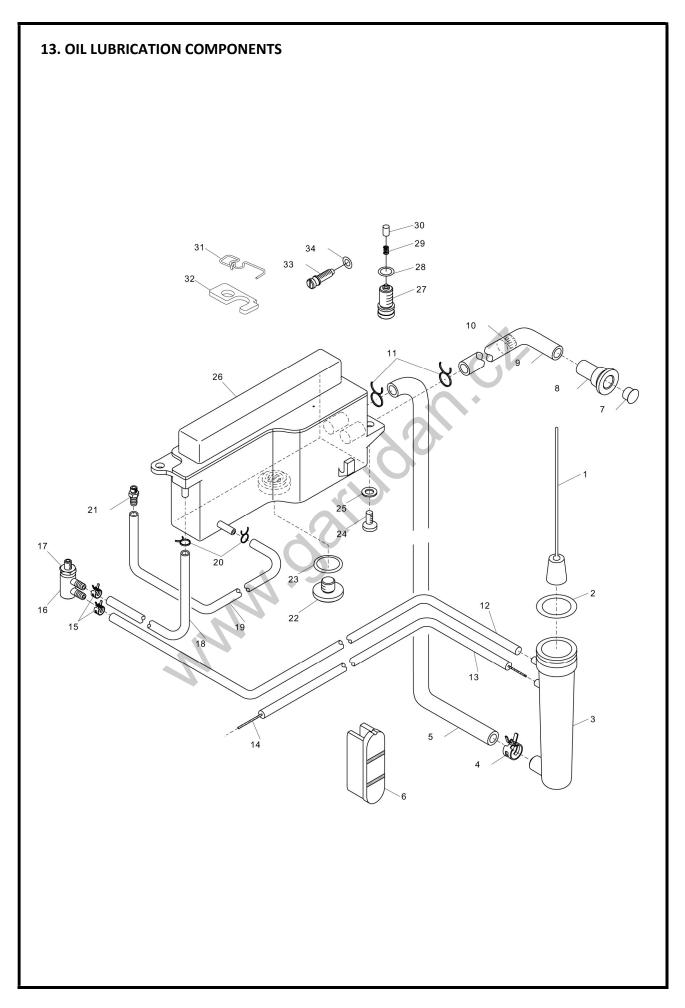
REF. NO
1
2



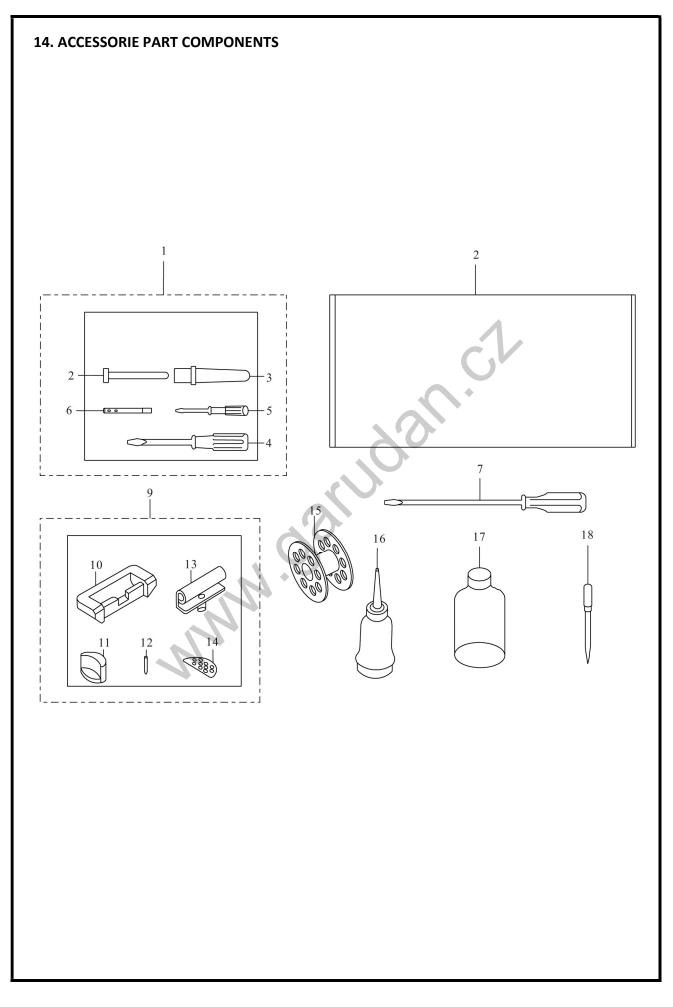
12. THREAD TRIMMER COMPONENTS (ROTATION KNIFE) (1/2)					
REF. NO	PART. NO	NAME OF THE PART	QTY		
1	10011422	Screw SM 9/6 4"×40 L = 4	1		
2	10011421	Fixed Knife	1		
3	10011497	Screw SM11/64"×40 L=9	3		
4	10013154	Washer	2		
5	10011584	Dispart Thread Shuttle	1		
6	10013333	Screw SM3/1 6 "×3 2L = 1 4	1		
7	10013024	Trimming Crank	2		
8	10013013	Bushing	1		
9	10012162	Screw M5x5	1		
10	10013027	Bushing	1		
11	10013044	Knife Shaft Connecting Bar	1		
12	10011514	Screw	2		
13	10013010	Crank Block	1		
14	10010595	Screw M4x7.5	2		
15	10013023	Fixed Plate	1		
16	10009626	Screw M3x4.35	3		
17	10013026	Knife Holder	1		
18	10011588	Screw SM1 1/6 4 "×40 L = 4 . 7	2		
19	10011494	Round Knife	1		
20	10013045	Round Knife Bracket	1		
21	10011578	Nút	1		
22	10010736	Thread Trimmer Cam	1		
23	10013465	Screw SM1/4"×40 L = 1 0	2		
24	10013030	Spring	1		
25	10014462	Bushing	1		
26	10012162	Screw M5x5	1		
27	10013008	Washer	1		
28	10014196	Spring Cover	1		
29	10013007	Trimming Crank Shaft	1		
30	10008812	Spring	1		
31	10008862	Screw SM1/4 "×40 L = 5 . 8	1		
32	10013878	Trimming Cam Crank ASM	1		
33	10013038	Washer	1		
34	10014460	Washer	1		
35	10011650	Washer	1		
36	10011697	Trimming Shaft	1		
37	10013050	Loosing Plate	1		



	12. THREAD TRIMMER COMPONENTS (ROTATION KNIFE) (2/2)					
REF. NO	PART. NO	NAME OF THE PART	QTY			
38	10011605	Screw SM1/4"x28 L=12	1			
39	10009471	Nut M4	2			
40	10006131	Solenoid Base	1			
41	10013046	Solenoid Connecting Shaft	1			
42	10011845	Washer	1			
43	10011606	Washer	1			
44	10006137	Thread Trimmer Solenoid	1			
45	10013590	Screw SM11/64"x40 L=4	1			
46	10008834	Spring	1			
47	10012467	Screw	1			
	NN	1.00.				



REF. NO	PART. NO	NAME OF THE PART	QT
1	10000569	Floater ASM.	1
2	10008777	O-ring	1
3	10008782	Floateer case	1
4	10013048	Pipe stopper	1
5	10007806	Oil pipe	1
6	10008772	Oil sight window	1
7	10008943	Rubber plug	1
8	10008780	Oil inlet	1
9	10007806	Oil pipe	1
10	20007434	Oil filter ASM.	1
11	10008785	Pipe stopper	2
12	10007800	Oil pipe	1
13	10007800	Oil pipe	1
14	10008101	Oil wick	1
15	10012160	Pipe stopper	2
16	10030182	Oil connection ASM.	1
17	10013012	Nut	1
18	10007800	Oil pipe	1
19	10007800	Oil pipe	1
20	10008781	Pipe stopper	2
21	10008779	Oil connection	1
22	10008783	Screw	1
23	10010240	O-ring	1
24	10008972	Screw	2
25	10009469	Washer	2
26	10012669	Oil tank ASM.	1
27	10013025	Screw	1
28	10014461	O-ring	1
29	10014386	Plunger spring	1
30	10012609	Plunger	1
31	10022507	Oil felt presser	1
32	10013020	Oil felt	1
33	10012667	Screw	1
34	10012606	O-ring	1



REF. NO	PART. NO	NAME OF THE PART	QT
1	А	Accessorie Bag Asm A	1
2	10012631	Knee Lifter Presser Rod	1
3	10004514	rame Support Bar	1
4	10010995	Screw Driver,Middle	1
5	10013185	Screw Driver,Small	1
6	10005639	Needle Thread Guide ASM	1
7	10010994	Screw Driver,Large	1
8	10005776	Frame Viinyl Cover	1
9	В	Accessorie Bag ASM B	1
10	10006286	Rubber Cushion	2
11	10013113	Oil Reservior Seat	2
12	10003889	Nail	6
13	10004466	Hinge Compl	2
14	10013101	Oil Reservior Cushion	2
15	10010060	Bobbin	3
16	10013294	Oiler ASM	1
17	10004455	Oil Box	1
18	10034917	Needle 134R Nm110/18	3
	NN	NOS	