User's Manual and Spare Parts Book



GF-138 Serie L100 GF-238 Serie L100



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Caution:

In case of sage the machine with HVP-70 motor, change the output JP3 On motor's main board from 5V to 12V.



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PRECAUTIONS BEFORE STARTING OPERATION

1. Safety precautions

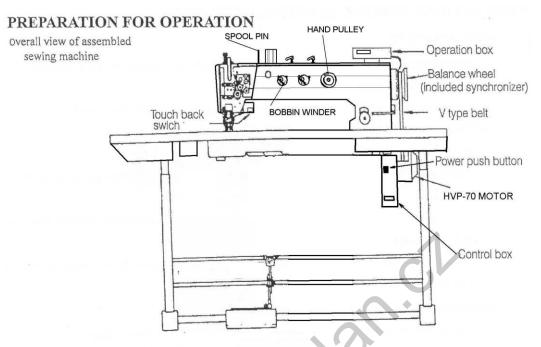
- When turning the power on, keep your hands and fingers away from the area around/under the needle and the area around the pulley.
- 2) Power must be turned off when the machine is not used, or when the operator leaves his/her seat.
- 3) The power must be turned off before tilting the machine head,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

2. Precaution before Starting Operation

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

3. Precaution for Operating Conditions

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



1. Power cable connection

1) Connection to Power Supply

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

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

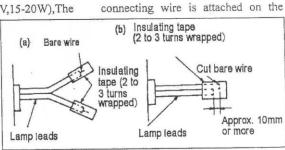
CAUTION: The green wire must be connected to the ground terminal in order to ground the motor properly.

B. The appropriate power fuse capacity is as follows. Power supply 200V-240V: 10A 100V-120V: 15A

2) Lamp Leads

A. When installing the illuminating lamp(6V,15-20W), The

back of the Control box. It should be removed and connected by removing the insulating tube from the wire and stripping properly. The wire connections should be, then, insulated by



wrapping insulating tape on the wires.

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

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

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

It may cause transformer winding burned out.

3) Rotary direction

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

2. Connection of control box

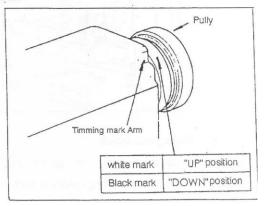
The control box should be connected as shown to the right.

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

(2) The combination of the machine
heads with the motor control
panels are specified below.Use special care for the correct
combination when replacing the machine head or motor control panel.

3. Adjustment of needle bar stop position

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



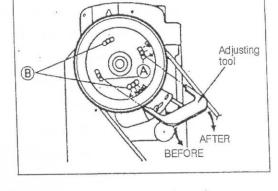
tool" in the hole" A", then remove the tool.

2) Adjust of "Down" position

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

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

Oil level



CAUTIONS ON USE

1. Oiling (1)

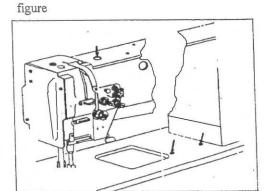
Fill the oil reservoir with oil up to "H" mark and more.

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

For oil, Use white spindle oil1.

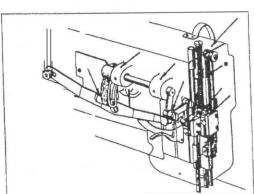
2. Oiling (2)

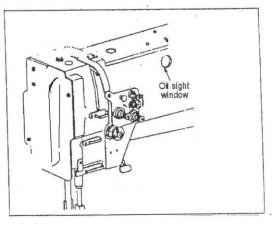
When a new sewing machine is used for the first time, or sewing machine left out of use for considerably long time is used again, replenish a suitable amount of oil to the portions indicated by arrow in the below



3. Oiling condition

See dripping of oil through the oil sight hole to check oiling condition during operation.

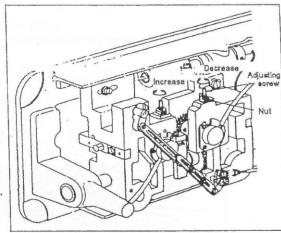




4. Adjustment of oiling to rotating hook

5. Cautions on operation

- a) When the power is turned on or off, keep foot away from the pedal.
- b) It should be noted that the brake may not work when the power is interrupted or power failure occurs during sewing machine operation.
- c) Since dust in the control box might cause malfunction or control troubles, be sure to keep the control box cover close during operation.
- d) Do not apply a multimeter to the control circuit for checking; otherwise voltage of multimeter might damage semiconductor components in the circuit.



6. Lubrication

On the machine are two main lubricant tank.

The first lubricant tank is under base plate of the machine. For accessing the lubricant tank is necessary to fold down the machine (fig. 1). In the upper portion of the casting (note.1.1). Through the tube put up to 3 cm of oil. During an 8 hour work shift, the oil in the tank refill once a week, preferably on Monday (because the machine is equippes the wick lubrication and i tis functional if the machine works or does not otherwise it could be a lot of oil in the machine.



fig.1

The second lubricant tank is in the upper part of the machine. It is necessary to refill the oil up to 2 cm twice a month when it is 8 hours work shift. This lubricant place is connected with putting oil to needle bar. In the case that if there is an oil mark in the space of the needle it is necessary to put less oil to this tank or not to put any oil to this tank.



fig.2

Other lubricant places are marked with red colour and there is needed refill the oil (about 2 drops) once a week. The last lubricant places are shuttle hook. These places are not marked with red colour the places are marked with an arrow. It is necessary to put 2 drops of oil once a week.





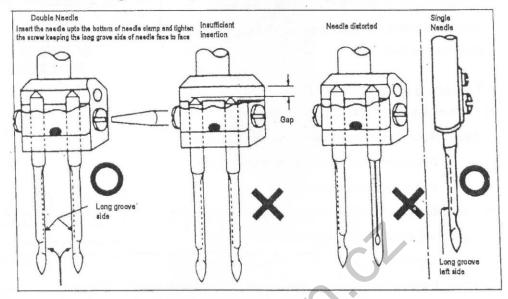
fig.3 fig.4

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OPERATION

1. Installation of needles

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



2. Winding of bobbin thread

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

Adjustment:

Tension of wound thread

Slack winding is recommended for polyester thread

and nylon thread.

Conically wound thread

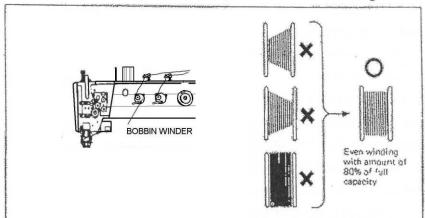
Move the thread guide toward smaller diameter of

wound thread layer.

Length of wound thread

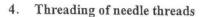
Loosen the thread length adjusting screw to increase length

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



3. Selection of thread

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

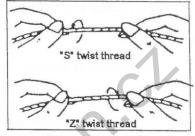


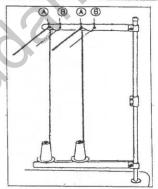
a) Pass each needle thread through thread guide A Note: When thin slippery thread (polyester Thread or filament thread, for example) is used pass the thread through thread guide B as well.

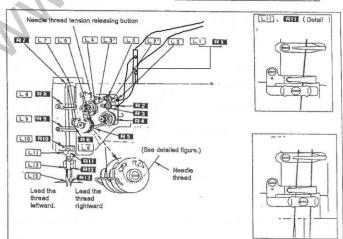
b) With the take-up lever located at the upper most position,
 pass each needle thread in the order shown in the

following figure.

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







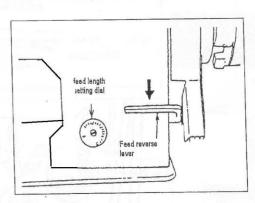
5. Adjustment of feed (stitch) length and stitch reversing (touch back)

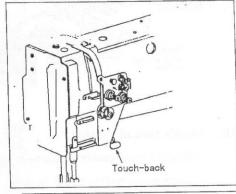
Note: To make feed (stitch) length smaller, depress the feed reverse lever and set the feed length setting dial to a desired position

Touch-back button...Direction of stitching can be reversed by depressing this button.

Stitching goes on in reversed direction while the button is held down, and returns to forward

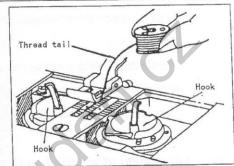
direction when the button is released...





Setting of bobbin

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



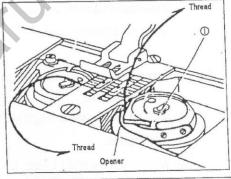
7. Threading of bobbin threads

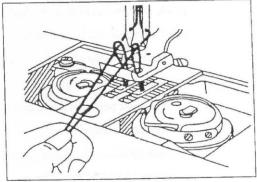
a) Put the hook into the bobbin case and press down the latch ①.

The thread end should be left on the bed .

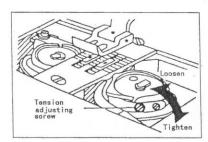
b) While holding the two needle Threads by left hand, rotate the hand-wheel one turn by right hand.

By pulling up the needle threads, as shown in the figure, the bobbin threads will be lifted. Each combination of bobbin thread and needle thread should be aligned and led backward.





8. Tension adjustment of bobbin threads



10. Needle thread tension

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

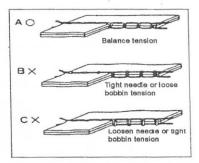
11. Adjustment of presser foot pressure

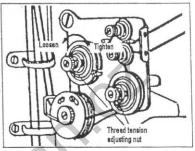
Pressure to fabric(s) can be adjusted by turning the pressure adjusting screw.

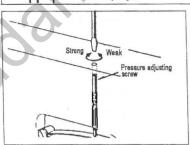
12. Timing between rotating hook motion and needle motion

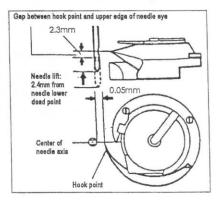
- (1) Set feed length (stitch length) to "6" on the feed setting dial.
- (2) When needle is lifted 2.4mm from the lower dead point, as shown in Figure, the following positional relationship should be maintained.
 - The upper edge of needle eye should be 2.3mm below the hook point.
 - The hook point should be located at the center of needle axis.
 - Gap between the hook point and the side face of needle should be 0.0.5mm.

9. Balance of thread tension



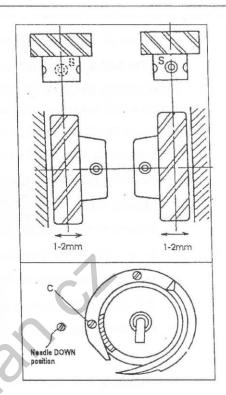






■ Positioning of hook point

- (1) When the needle is at DOWN position, the smaller Crossed helical gears on the right side and left side should be engaged with the large wheel so that the "S" screw of the former gear comes on the front side, and that of the latter gear on the reverse side.
- (2) Tighten each "S" screw, where is punched for set screw, on the hook shaft.
- (3) Approximate position of hook "C" screw of hook should be found close to the needle when the needle is at DOWN position.
- To finely adjust timing between the needle motion and hook motion, loosen the set screw of larger gear wheel and move the gear wheel in its axial direction within a range from 1mm to 2mm.



13. Adjustment of feed dog height

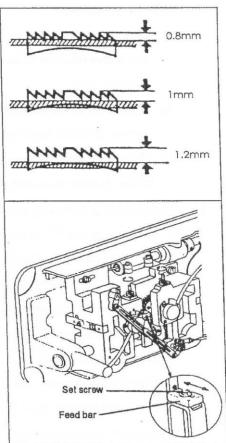
Height of feed dog and pressure of presser foot should be adjusted for individual fabric(s) with the following cautions:

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

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

Adjustment procedure

- a) Lean the machine head backward.
- Turn the hand wheel by hand and stop when the feed dog rises to the maximum height.
- c) Loosen the feed bar set screw.
- d) Vertically move the feed bar (in the direction indicated by arrow in the figure) to adjust it to adequate height.



Timing belt

Timing mark

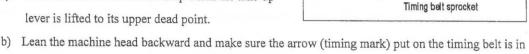
- After the adjustment, tighten the feed bar set screw.
- The feed dog height is factory-adjusted to 1.2mm

14. Relationship between rotating hook motion and take-up lever motion

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

a) Turn the balance wheel and stop when the take-up lever is lifted to its upper dead point.

line with the black line on the boss of lower shaft bearing.



Black line on boss of lower shaft bearing

c) If the timing mark is not in line with the black line ,remove the timing belt and install it again to adjust.

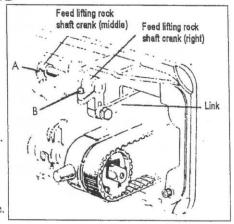
15. Relationship between hook motion and opener motion

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

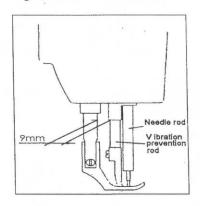
Approx. 0.2mm Opener Screw Opener holder

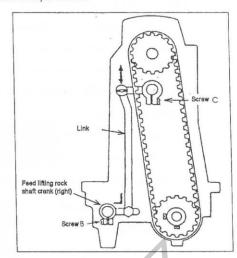
16. Relationship between needle motion and feed dog motion

- a) Set feed length to "0" on the feed setting dial
- b) Lean the machine head backward.
- c) Loosen the feed lifting rock shaft crank set screws A and B
- d) Set the needle at the lowest position.
- e) Adjust the distance between presser rod and vibration prevention rod to 9mm and temporarily tighten the feed lifting rock shaft crank set screws A and B
- f) Check that the right feed lifting rock shaft crank is connected with the link at right angle, as shown in Figure.
- g) If the connection is not at right angle, remove the back cover, loosen screw C and move the right link to connect the right feed lifting rock shaft with the link at right angle.



- h) After the completion of adjustment, fully tighten the screws A, B and C.
- At this time make certain that needle can enter the feed dog needle hole at the center of the hole.





17. Safety clutch device:

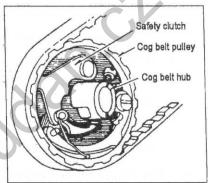
Safety clutch device is installed to prevent the hook and cog belt from damage in case the thread is caught into the hook when the machine is loaded abnormally during operation.

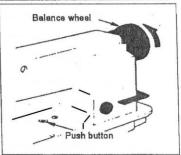
(1) Function of safety clutch.

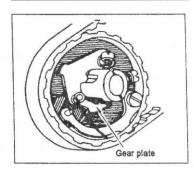
- a) When the safety clutch acts, the cog belt pulley will be unloaded, then the rotation of hook shaft will stop.
 - The arm shaft only will rotate. Stop the operation of machine.
- b) Clean the thread thoroughly which is caught into the hook.
- c) Turn the cog belt hub by hand, and check whether the hook Shaft rotates lightly and properly, place the clutch device as follows.

(2) How to set the safety clutch.

- a) While pressing down the push button on the opposite side of bed by left hand, turn the balance wheel slowly by right hand away from you as shown in the figure.
- b) The balance wheel will stop by the gear plate,
 but turn the balance wheel more firmly.
- c) Release the push button.
- d) As shown in the Figure, the safety clutch device is set.







(3) Force applied to the safety clutch.

- a) The force applied to the safety clutch is the smallest when the white mark of the eccentric pin faces the center of the lower shaft. The force proportionally increases as the white mark faces the outside.
- To adjust the force slide the timing belt, loosen the set screw, and turn the eccentric pin.
- c) After the adjustment, make sure to fasten the set screw.

18. Upper feed adjustment

(Needle side)

If the uneven feeding occurs according to the fabric, Adjust the long hole of the horizontal feed shaft crank (right) to adjust the upper feed length. (How to adjust)

- a) Loosen the special bolt.
- b) Move the special bolt upward to decrease upper feed.
- c) Move the special bolt downward to increase the upper feed. The upper feed and the lower feed theoretically becomes equal at the reference line on the horizontal feed shaft crank.
- d) Securely tighten the special bolt after adjustment.

19. Outside presser foot and inside presser vertical stroke adjustment

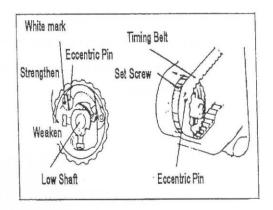
When fabric with large elasticity is sewn, or when thickness of fabric changes, the vertical stroke (movable range) of the presser feet should be adjusted as follows:

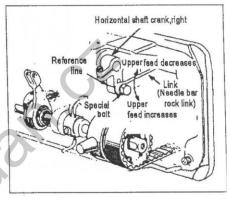
Adjustment

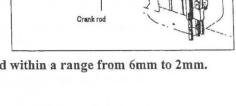
- a) Loosen the special bolt.
- b) The vertical strokes of the presser feet become
- c) maximum when the crank rod is moved upward and set.
- d) The vertical strokes becomes minimum when the nut is moved downward and set.
- e) After the adjustment, fully tighten the special bolt.
- The vertical strokes of the presser feet can be adjusted within a range from 6mm to 2mm.

20. Adjustment

Screwing the pin that connects the link of back-sewing with the crank of back-sewing (down) can adjust the tolerance of between the stitches. Screwing the pin in clockwise can increase the stitch of forward sewing; otherwise, the stitch of back-sewing will be increased.





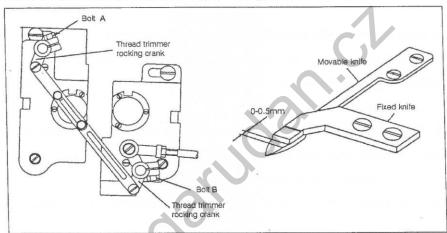


Special bolt

21. Installation of movable knife

(1) Installation of movable knife

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



Monable

Screw knife A

Screw knife B

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

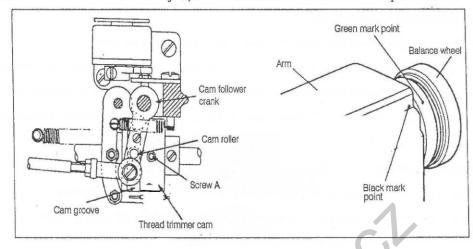
- Turn the balance wheel by hand until needle reaches the Lowest position.
- b. With the needle at the lowest position, depress cam follower crank, turn the balance wheel until the movable knife reaches the extremity of its stroke.
- c. Manually rotate the inner hook in the direction indicated by arrow in Figure and adjust gap between the movable knife and the inner hook stopper to about 0.5 mm (the screws A and B should be loosened for this adjustment).

22. Adjustment of thread trimmer cam

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

the arm.

Note: To adjust, loosen two thread trimmer cam clamp screws A.



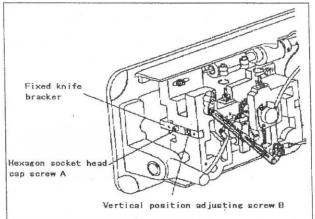
24. Adjustment of scissoring pressure of movable knife and fixed knife

a. Loosen the fixed knife bracket clamp bolt A.

b. Turn the vertical position adjusting screw B to adjust meshing pressure and then righter the hexagon socket head cap screw A.

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

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



25. Sharpening of fixed knife

When the knives dull, the fixed should be sharpened as illustrated in Fig. Since it is very difficult to sharpen the movable knife, replace it with a new one when it dulls.

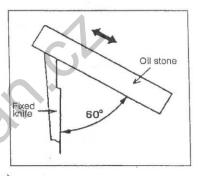
26. Adjustment for change of needle-to-needle distance

- (1) Replace the throat plate, feed dog and needle clamp.

 (Since the throat plate and feed dog are special parts designed for thread trimming machine, be sure to use those specified by us.)
- (2) Lean the machine head backward.
- (3) Loosen two connecting link clamp bolts J.
- (4) Remove the spring M.
- (5) Loosen the hook bracket clamp screws A and B and adjust gap between each needle and hook.
- (6) When the needles and hooks have been adjusted, install the spring M.
- (7) Contact the rocking cranks
 - C and D to the stopper pins E and F and tighten the connecting link clamp bolt J.

B Bolt J

- (8) Turn the balance wheel by band until the needles reach the lowest position.
- (9) Loosen the nuts G and H.
- (10) Depress the cam follower crank K and adjust the connecting rod L so that the cam roller can smoothly enter the groove of thread trimmer cam.
- (11) Adjustment of the cam groove and the cam roller



Hook

Thread trimme

Cam follows crank Thread trimn

Thread trimmer

- a. Push the cam follower crank K so that the cam roller enters into the cam groove.
- b. Turn the connecting rod L and adjust the clearance between the cam roller and the cam groove surface L as small as possible, and tighten the nuts G and H.
- c. Push the cam follower crank K again and check that the cam roller enters into the thread trimmer cam groove smoothly.

SPECIFICATIONS

Mod	lel	GF-138-443 H	GF- 238-443 MH	GF-138-446 H	GF-238-446 MH		
Num	ber	Single-needle	Double-needle	Single-needle	Double-needle		
Applic	ation		Heavy r	naterial	1		
Max. sewing speed		2000(rpm)					
Stitch	length		0~9(mm)				
Thread tak	-		74.50	(mm)			
Needle-b	ar stroke		36(mm) 🔷			
Presser-foot stroke		16(mm) Pneumatic Foot Lifter 8(mm) by hand					
Vertical stroke of upper feed		2~6(mm)					
Need	le No.	18	35x17 DP×1	7 #23	Needle Size 90 - 160		
Н	ook	.0	(Horizontal ful	l-rotating) Large			
Thread tal	ke-up lever	O	Slid	e lever			
Stitch adjusting system		Dial					
Lubrication system		Automatic lubrication					
Motor		HVP-70 (750	OVV)	HVP-70 (750W)			
Needle	Standard		6.4	(mm)			
gauge	Special	3.2 4	4.8 8 9.5	12.7 16	19 25.4(mm)		

- Note: Some materials, gauge sizes, and/or sewing conditions may require specifications other than those listed above.
 - Feed dog, throat plate, rotating hook, bobbin case and bobbin should be those designed for thread timer.
 - Bobbin should be of high quality free from deformation.
 - This specification is subject to change for machine improvement.

Spare Parts List Katalog náhradních dílů pro průmyslový šicí stroj



GF-138 Serie L100 GF-238 Serie L100



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zena. Všechna práva vyhrazena.

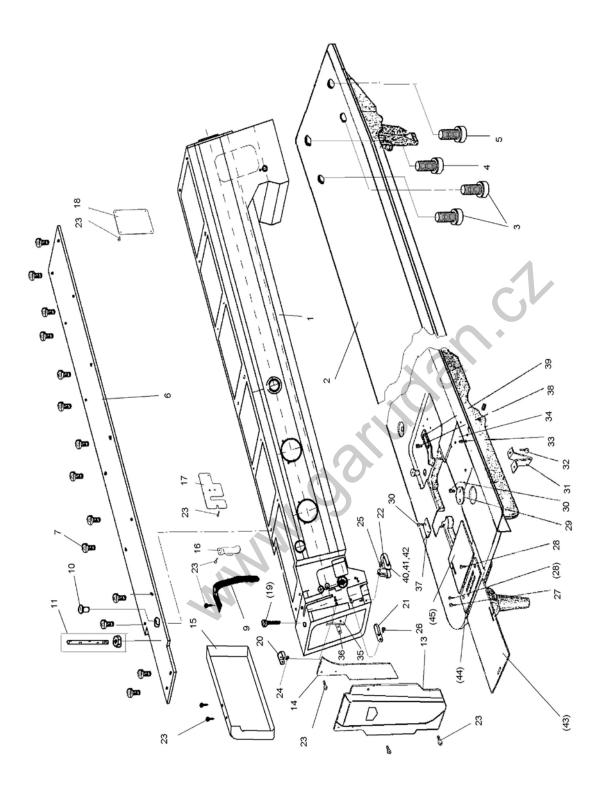
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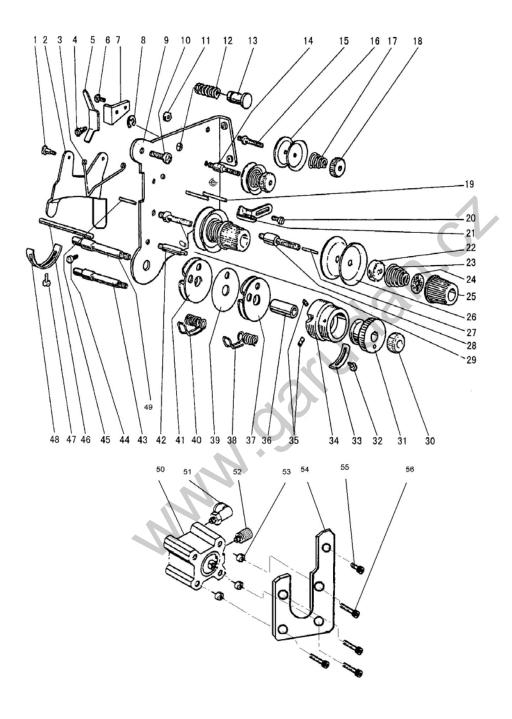
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Spare Parts Lists

A	Arm, Bed Plate and it's Accessories	4,5
В	Thread Tension Mechanism	6-9
C	Arm Shaft Mechanism	10,11
D	Upper Shaft and Presser Foot Mechanism	12-15
E	Needle Bar and Thread Take-up Mechanism	16-19
F	Stitch Regulator Mechanism	20,21
G	Lower Shaft and Feed Rock Shaft Mechanism	22-25
Н	Hook Saddle Mechanism.	
I	Upper Feed Rock Shaft Mechanism	28-29
J	Knife Mechanism.	30-33
K	Backtacking Mechanism and Detector Mechanism	34,35
L	Oil Lubrication Mechanism	36,37
M	Accessories	38,39
N	Bobbin Winder and Hand Pulley Parts	40,41
0	Pneumatics	42,43
P	Advanced Alternating Presser Foot Mechanism	44,45
-	Straightening Presser Foot	46
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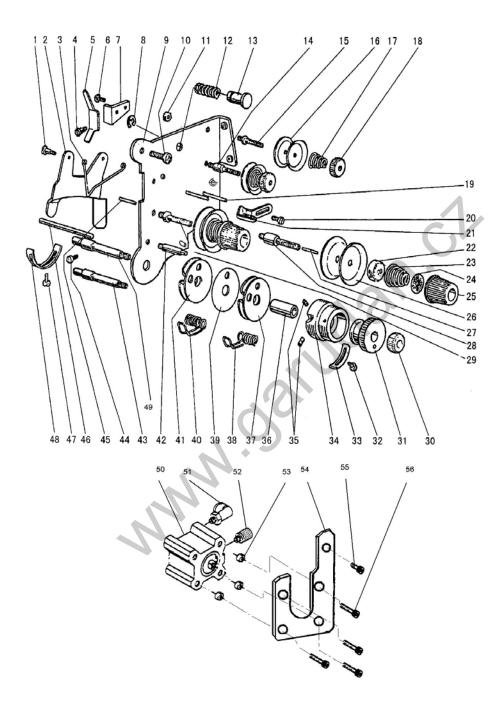


A 1				Q´ty	1
A 1				GF/138	GF/238
	GF/ L1	00-01B	Long Arm	1	1
A2		00-02A	Long Bed Plate		1
A 2	GF/ L10	00- 02B	Long Bed Plate	1	
А3	GF/	M12X30	Screw (M12x40 DIN 912)	2	2
A 4	GF/	M12X50	Screw(M12x50 DIN 912)	1	1
Α5	GF/	M12x80	Screw (M12x80 DIN 912))	1	1
A 6	GF/ L1	00-03	Arm Cover	1	1
Α7	GF/	M6x16	Screw (M6x16 DIN 912)	14	14
A 9	GF/	H4717B8001	Threrd Take-up Cover	1	1
A 10	GF/	H4715B8001	Rubber Plug	1	1
A 11	GP/	119026	Spool Pin	1	1
A 13	GF/	138	Face Plate	1	1
A 14	GF/	H4730B8001	Guide Mounting Plate	1	1
A 15	GF/ L1	00-40	Cover of Alternating Feed	1	1
A 16	GF/	H4716B8001	Oil Guide Plate	1	1
A 17	GF/	H4718B8001	Side Cover	1	1
A 18	GF/	H4919B8001	Side Cover right	1	1
A 19	GF/ L1	00-11	Screw (see table E ig No.3)	1	1
A 20	GF/	H2400B2070	Thread Guide [upper]	1	1
A 21	GF/	H4726B8001	Thread Guide [middle]	1	1
A 22	GF/	H4725B8001	Thred Guide	1	1
A 23	GF/	M4x8	Screw [DIN 85A, ISO 1362]	14	14
A 24	GF/	H2400B2080	Screw	2	2
A 25	GF/	H3200B2100	Screw	1	1
A 26	GF/	H3000D2160	Screw	1	1
A 27	GF/	H3200B2120	Screw		1
A 28	GF/	HA300B2190	Screw	2	
A 29	GF/	H4915B8001	Cover		1
A 30	GF/	H4914B8001	Screw	2	4
A 31	GF/	H4913B8001	Supporter	1	1
A 32	GF/	H4912B8001	Screw	2	2
A 33	GF/	H3200B2170	Screw		1
A 34	GF/	H3219B0067	Slide Plate Complete		1
A 35	GF/	H3200B2060	Oill Guard	1	1
A 36	GF/	H2400B2060	Plate for Oil Guard	1	1
A 37	GF/	H4911B8001	Cover		1
A 38	GF/	H4751B8001	Tension Releasing Plate	1	
A 39	GF/	H4742E8001	Screw	2	
A 40	GF/	H4722B8001	Screw	1	1
A 41	GF/	H4723B8001	Spring	1	1
A 42	GF/	H4724B8001	Plate	1	1
A 43	GF/		Slide Plate L(see Gauge Parts List)		
A 44	GF/		Needle Plate(see Gauge Parts List)		
A 45	GF/		Slide Plate P(see Gauge Parts List)		

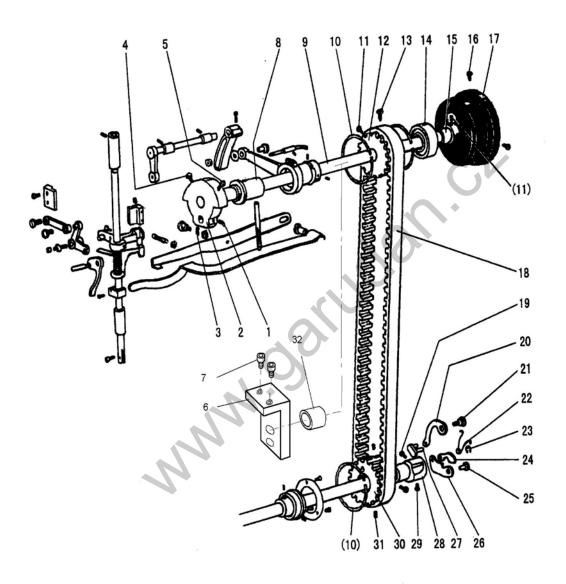


В

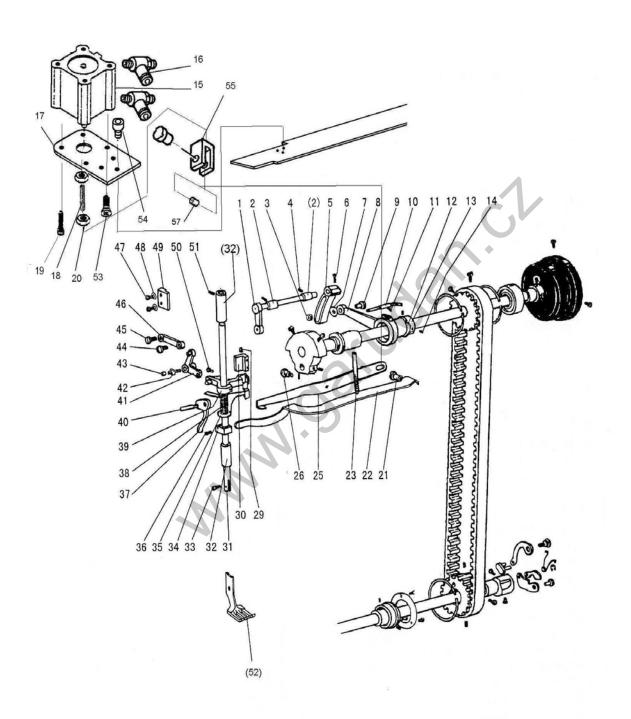
Ref. No.		Part No.	Name of Part	Q´ty	
					GF/238
B1	GF/	H3221B6811	Screw	2	2
B2	GF/ L100	0-16P	Tension Releasing Plate	1	1
В3	GF/	H3221B6812	Tension Releasing Spring	1	1
В4	GF/	H4705C8001	Screw	1	1
В5	GF/	H4706C8001	Lever	1	1
В6	GF/	HA7311C306	Screw	1	1
В7	GF/	H4707C8001	Mounting Plate	1	1
В8	GF/	H007013050	Stop Ring	1	1
В9	GF/ L100	0- 16	Mounting Plate (modification H3221B6820)	1	1
B10	GF/	M4x15	Screw (M4x15 DIN 85A)	1	1
B11	GF/	H3221B6810	Nut	1	1
B12	GF/	H4708C8001	Spring	1	1
B13	GF/	H4709C8001	Push Button	1	1
B14	GF/	H3221B0685	Thread Tension Stud	1	1
B15	GF/	H3221B0683	Thread Tension Stud	1	1
B16	GF/	HA112B0693	Thread tension Disk	2	4
B17	GF/	H3221B0384	Thread Tension Spring	1	2
B18	GF/	HA710B0671	Thumb Nut	1	2
B19	GF/	H3221B0682	Pin	2	3
B 20	GF/	HA106B0676	Screw	1	1
B21	GF/	H3306B0661	Thread Guide	1	1
B 22	GF/	HA310B0702	Thred Tension Releasing Plate	1	2
B 23	GF/	H4710C8001	Thread Tension Spring	1	2
B 24	GF/	HA115B7010	Thumb Nut Revolution Stopper	1	2
B 25	GF/	HA310B0701	Thumb Nut Compete	1	2
B 26	GF/	HA310B0705	Thread Tension Disk	2	4
B 27	GF/	H3221B6816	Pin		1
B 28	GF/	H3221B0689	Thread Tension Stud		1
B 29	GF/	H3221B0686	Thread Tension Stud	1	1
B30	GF/	H32481B721	Thumb Nut	1	1
B31	GF/	H32481B621	Také-up Spring Guide		1
B32	GF/	H32481BC21	Screw (to 6/2014)		1
B32	GF/	M4x10	Screw (from 6/2014)		1
B 33	GF/	H32481BB21	Stopper		1
B 34	GF/	H32481B921	Thread Tension Post		1
B 35	GF/	H32481B521	Screw		2
B36	GF/	H32481B821	Bushing		1
B37	GF/	H32481BF21	Plate Complete		1
B 38	GF/	H4712C8001	Thred Také-up Spring		1
B 39	GF/	H32481BE21	Plate		1
B 40	GF/	H4713C8001	Thread Také-up Spring	1	1
B41	GF/	H32481BD21	Plate Complete	1	1
B 42	GF/	H4804C8001	Screw	1	
B 42	GF/	H32481B421	Thread Tension Stud		1
B 43	GF/	H4805C8001	Thread Tension Stud	1	



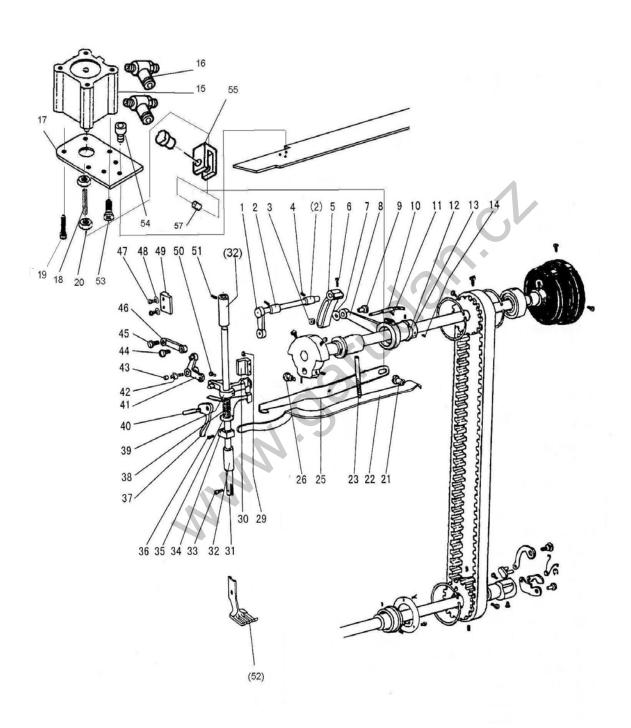
Ref. No.	Part No.	Name of Part	Q´ty	
				GF/238
B 44	GF/ H3230K0751	Screw	1	1
B 45	GF/ H3221B6817	Pin	1	1
B 46	GF/ H3221B6818	Tension Releasing Pin	1	
B 46	GF/ H4916B8001	Tension Releasing Pin		1
B 47	GF/ H3200B2100	Screw	1	1
B 48	GF/ H3221B6819	Stopper	1	1
B 49	GF/ H32481B121	Thread Tension Stud		1
B 50	GF/ CQ2B12-5D	Air Cylinder SMC	1	1
B51	GF/ KQ2L04-M5	Fitting SMC	1	1
B 52	GF/ AN120-M5	Silencer SMC	1	1
B 53	GF/ L100-16K	Distance Bushing	3	3
B 54	GF/ L100-16D	Bracket	1	1
B 55	GF/ M4x5	Screw (M4x5 DIN 912,BN 272)	1	1
B 56	GF/ M4x20	Screw (M4x20 DIN 912,BN 272)	4	4



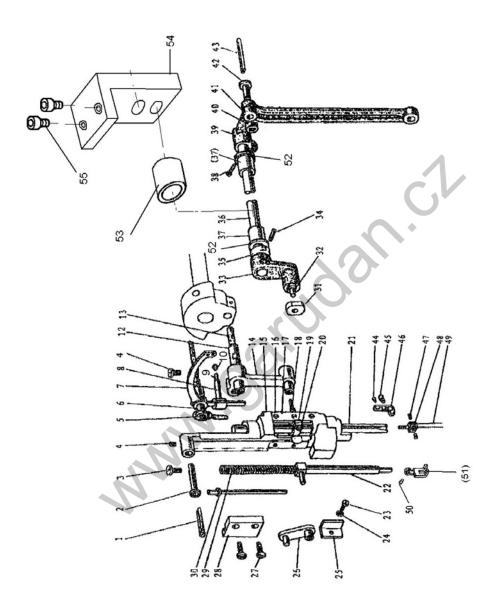
Ref. No.	Part No.	Name of Part	Q´ty	
			GF/138	GF/238
C1	GF/ HA307C0662	Set Screw	1	1
C2	GF/ H4706D8001	Crank	1	1
С3	GF/ HA105D0662	Long Bed Plate	1	1
C4	GF/ HA100C2060	Set Screw	1	1
C5	GF/ HA100C2070	Screw	1	1
C6	GF/ L100-24	Bracket	2	2
C7	GF/ M5x12	Screw (M5x12 DIN 84A)	4	4
C8	GF/ NAX 1532Z	Needle Bearing (NAX 1532Z IKO)	1	1
C9	GF/ L100-05	Arm Shaft	1	1
C10	GF/ H3205C0661	Spring flange	3	3
C11	GP/ HA113F0684	Screw	1(2)	1(2)
C12	GF/ L100-57	Belt pulley (modification H3205C1021)	1	1
C 13	GF/ HA100F2130	Screw	1	1
C14	GF/ H3205J0662	Bearing	1	1
C 15	GF/ L100-58	Collar (modification H3205J0661)	1	1
C16	GF/ HA110D0672	Screw	2	2
C 17	GF/ L100-59	Pulley (modification H4711D8001)	1	1
C18	GF/ H3200C2030	Cog belt	1	1
C19	GF/ HA104F0654	Screw	1	1
C 20	GF/ H4713D8001	Spring Plate	1	1
C21	GF/ H4714D8001	Pin	1	1
C 22	GF/ H4716D8001	Twist Spring	1	1
C 23	GF/ H007013025	top Ringh	1	1
C24	GF/ H4717D8001	Plate	1	1
C 25	GF/ H4718D8001	Pin	1	1
C 26	GF/ H4719D8001	Plate	1	1
C 27	GF/ H4715D8001	Link	1	1
C 28	GF/ H4720D8001	Bushing	1	1
C 29	GF/ H4721D8001	Screw	1	1
C30	GF/ H4722D8001	Belt Pulley (lower)	1	1
C31	GF/ H4723D8001	Screw	2	2
C32	GF/ HK 1512	Needle Bearing (HK 1512) SKF	2	2
				ļ



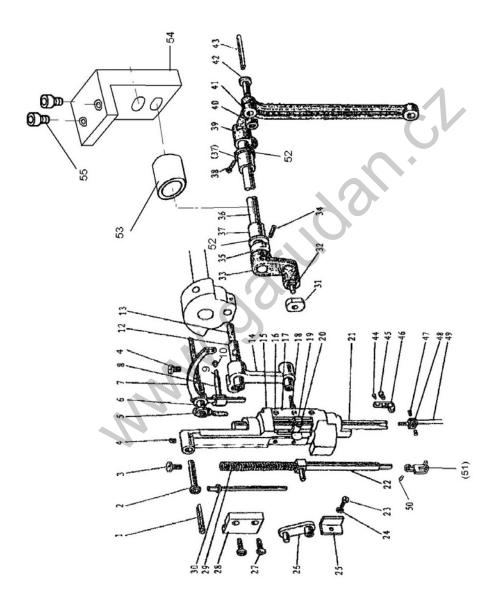
Ref. No.		Part No.	Name of Part	Q´ty	
				GF/138	GF/238
D1	GF/	H4705E8001	Feed Lifting Rock Shaft	1	1
D2	GF/	H4707E8001	Bushing	2	2
D3	GF/	HS91165206	Nut	1	1
D4	GF/	H4706E8001	Screw	2	2
D5	GF/	H4709E8001	Lever	1	1
D6	GF/	H3115F0671	Screw	1	1
D7	GF/	H2013J0065	Washer	1	1
D8	GF/	H2014J0066	Connectung Rod	1	1
D9	GF/	H2000J2100	Bolt	1	1
D10	GF/	H4713E8001	Oil Pipe, Wick complete	1	1
D11	GF/	H20111C106	Spring	1	1
D12	GF/	H007009250	C-type Stop Ring	1	1
D13	GF/	H4714E8001	Eccentric (modification)	1	1
D14	GF/	HA307C0662	Screw	2	2
D15	GF/	ECQ2B40-20D	Air Cylinder	1	1
D16	GF/	AS2201F-01-04S	Meter out Speed Controler	2	2
D17	GF/ L100-		Bracket	1	1
D18	GF/	M8x70	Rod with Thread (M8x70)	1	1
D19	GF/	M6x20	Screw (M6x20 DIN 912)	2	2
D20	GF/	M8x70	Nut (M8 DIN 934)	2	2
D21	GF/ L100-	14	Pin	1	1
D22	GF/	H4730E8001	Lever Spring	1	1
D23	GF/ L100-	12	Screw (M8x0,75)	1	1
D25	GF/	H472E8001	Knee lifting Lever	1	1
D26	GF/ L100-	15	Screw	1	1
D29	GF/	HA111G0683	Screw	2	2
D30	GF/	H4723E8001	Guide	1	1
D31	GF/	H4744E8001	Bushing	2	2
D32	GF/		Presser Bar	1	1
D33	GF/	H3200E2020	Screw	1	1
D34	GF/	H4746E8001	Spring Bracket	1	1
D35	GF/	H4768E8001	Thread Releasing Plate	1	1
D36	GF/	H2404I0034	Screw	1	1
D37	GF/	H4748E8001	Lifter Lever	1	1
D38	GF/	H4767E8001	Spring	1	1
D39	GF/	H4752E8001	Bracket	1	1
D40	GF/ L100-		screw	1	1
D41	GF/		Bell Crank	1	1
D42	GF/	H2004J0655	Support Shaft	1	1
D43	GF/	H4717E8001	Roller	1	1



Ref. No.	Part No.	Name of Part	Q´ty	
				GF/238
D44	GF/ H4718E8001	Screw	1	1
D 45	GF/ H2004J0662	Screw	1	1
D46	GF/ H4719E8001	Link	1	1
D47	GF/ HA100E2150	Screw	2	2
D48	GF/ H4722E8001	Washer	2	2
D49	GF/ H4721E8001	Bell Crank Guide	1	1
D50	GF/ H4753E8001	Screw	1	1
D51	GF/ M6x16	Screw (M6x16 DIN 551)	2	2
D52	GF/ H4757E8001	Lifting Presser Foot(see table page no.47)		1
D52	GF/ H3100G2110	Lifting Presser Foot(see table page no.47)	1	
D53	GF/ M6x16	Screw (M6x16 DIN 963A)	2	2
D54	GF/ M5x12	Screw (M5x12 DIN 912)	3	3
D55	GF/ GKM8-16	Connecting Rod SMC	1	1
D	GF/			
D57	GF/ L100-21L	Roller	1	1

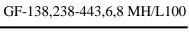


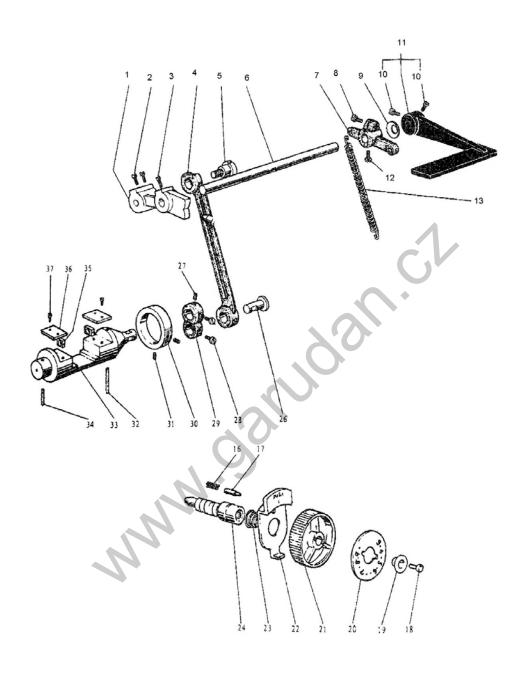
Ref. No.		Part No.	Name of Part	Q´ty	
				GF/138	GF/238
E1	GF/	H24211DN05	Oil Wick	1	1
E2	GF/	H4706F8001	Needle Bar Guide Bracket Stud	1	1
E3	GF/ L10	0-11	Screw	1	1
E4	GP/	700510	Screw (M6x0.75x8) (to 6/2014)	2	2
E4	GP/	M6x8	Screw (from 6/2014)	2	2
E5	GF/	H24211DN05	Oil Wick	1	1
E6	GF/	H24211DM05	Thread Take -up Lever support Stud	1	1
E7	GF/	H4712F8001	Thread Take -up Lever	1	1
E8	GF/	H2405D1112	Thread Take-up Lever Slide Block	1	1
E9	GF/	H24211D405	Oil Wick	1	1
E 10	GF/	H24211D305	Plug	1	1
E 12	GF/	H2405D0662	Needle Bar Crank Pin	1	1
E 13	GF/	H4716F8001	Oil Wick	1	1
E14	GF/	H4717F8001	Connecting Link	2	2
E 15	GF/	H4719F8001	Needle Bar Guide Bracket	1	1
E 16	GF/	H32111D304	Screw	6	6
E 17	GF/	H4721F8001	Spacer	2	2
E 18	GF/	H3204D6513	Felt	1	1
E 19	GF/	H4722F8001	Needle Bar Holder	1	1
E 20	GF/	H32111D604	Screw	1	1
E 21	GF/	H4724F8001	Needle Bar		1
E 21	GF/	H4806F8001	Nedle Bar	1	
E 22	GF/	H4725F8001	Vibrating Presser Bar	1	1
E 23	GF/	H3400C2020	Screw	1	1
E 24	GF/	H3200I2030	Washer	1	1
E 25	GF/	H3400C2010	Needle Bar Guide	1	1
E 26	GF/	H4726F8001	Vibrating Presser Bar Link	1	1
E 27	GF/	H4753E8001	Screw	2	2
E 28	GF/	H4728F8001	Vibrating Prasser Bar Guide	1	1
E 29	GF/	H4729F8001	Spring Bracket	1	1
E30	GF/	H4730F8001	Vibrating Presser Spring Guide	1	1
E31	GF/	H3410C301P	Squre Block	1	1
E 32	GF/	H3406C0671	Crank Pin	1	1
E 33	GF/	H3406C0672	Needle Bar Vibrating Crank (left)	1	1
E 34	GF/	4x24h6	Pin (4x24h6 DIN 6325, BN 858)	1	1
E35	GF/	H4734F8001	Collar (modification)	1	1
E 36	GF/ L10	0-06	Nedle Bar Vibrating Shaft	1	1
E37	GF/	NK 15/20	Beedle Bearing IKO	2	2
E 38	GF/	H2012N0652	Screw	1	1
E 39	GF/ L10		N. BarVibr.Crank (modification H3407C0661)	1	1
E 40	GF/	H32311D506	Nut	1	1
E 41	GF/	H3407C0662	Connecting Link	1	1
E 42	GF/	H32311D306	Screw	1	1



Ref. No.		Part No.	Name of Part	Q´ty	
					GF/238
E 43	GF/	H32311D406	Oil Wick	1	1
E 44	GF/	H3129F0691	Screw	1	
E 45	GF/	HA100C2170	Screw	1	
E 46	GF/	H3129F0693	Thread Guide	1	
E 47	GF/	H32132D104	Screw		2
E 48	GF/	H4739F8001	Needle Clamp(1/4)(see table page no.45)		1
E 49	GF/	H4740F8001	Needle	1	2
E 50	GF/	HA700F2100	Screw	1	1
E 51	GF/	H4807F8001	Presser Foot (see table page no.45)	1	
E 51	GF/	H4737F8001	Presser Foot (see table page no.45)		1
E 52	GF/	16x28/0.5,0.2	Distance Washer	х	х
E 53	GF/	HK 1512	Needle Bearing HK 1512 IKO	2	2
E 54	GF/ L10		(see table C)		
E 55	GF/	M4x20	(see table C)		
			<i>i</i> //		
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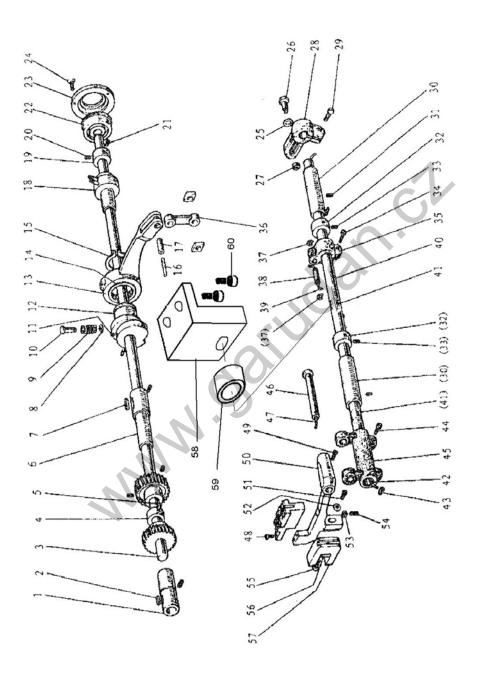
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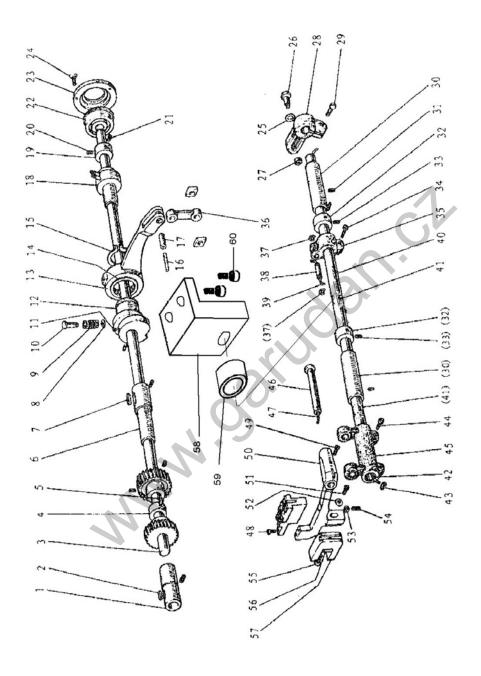




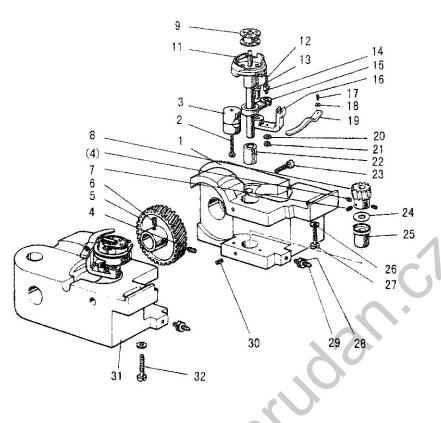
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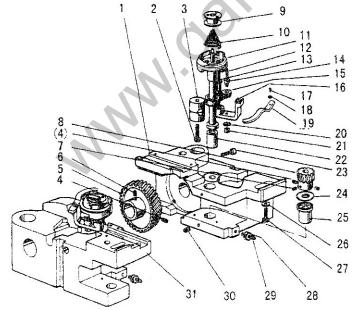
Ref. No.		Part No.	Name of Part	Q´ty	
					GF/238
F1	GF/	H4706G8001	Feed Regulator Cam	1	1
F2	GF/	HA113F0684	Screw	2	2
F3	GF/	H3200F2020	Screw	1	1
F4	GP/	H4707G8001	Link	1	1
F5	GF/	HA100G2070	Eccentric Shaft	1	1
F6	GF/	H4909G8001	Reverse Stitch Shaft upper)	1	1
F7	GF/	H4905G8001	Arm	1	1
F8	GF/	HA800F2020	Screw	1	1
F9	GF/	HA100F2110	Spring Washer	1	1
F10	GF/	HA113F0684	Screw	2	2
F11	GF/	H4906G8001	Reverse Sewing Lever	1	1
F12	GF/	H3207F0672	Screw	1	1
F13	GF/	H4710G8001	Spring	1	1
F16	GF/	H3200F2120	Spring	1	1
F17	GF/	HA700F2030	Spring Pin Screw	1	1
F18	GF/	HA720F0608	Screw	1	1
F19	GF/	HA720F0685	Bushing	1	1
F20	GF/	H4910G8001	Stitch Length Indicating Plate	1	1
F21	GF/	HA7421F120	Dial	1	1
F22	GF/	HA720F0683	Vibrating Presser Bar	1	1
F23	GF/	HA720F0687	Coil Spring	1	1
F24	GF/	HA109F0671	Screw Bar	1	1
F26	GF/	H3206F0662	Pin	1	1
F27	GF/	H415050200	Screw	1	1
F28	GF/	H428050060	Screw	2	2
F29	GF/	H4714G8001	Reverse Sewing Crank	1	1
F30	GF/	H4715G7101	Collar	1	1
F31	GF/	HA3411D308	Screw	2	2
F32	GF/	H4719G8001	Felt	1	1
F33	GF/	H4720G8001	Reverse Block	1	1
F34	GF/	H4721G8001	Felt	1	1
F35	GF/	H4722G8001	Square block	1	1
F36	GF/	H4723G8001	Guide Plate	2	2
F37	GF/	HA300C2030	Screw	4	4





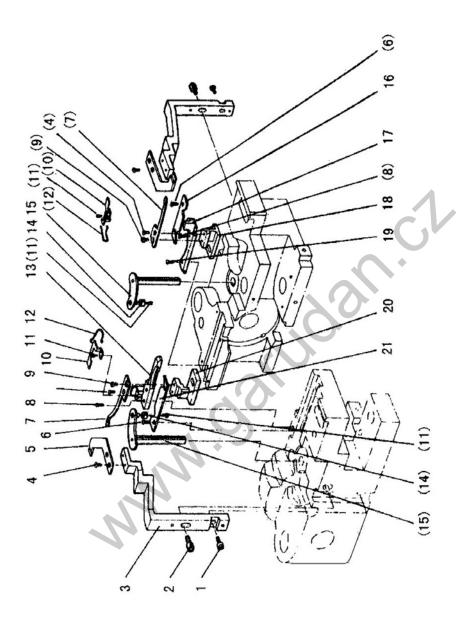
Ref. No.	Part No.	Name of Part	Q´ty	
				GF/238
G 44	GF/ HA104G0012	Screw	2	2
G 45	GF/ L100-65	Feed C.Crank (modification H4905H8001)		1
G 45	GF/ H3205G1032	Feed Connection Crank (left,modification)	1	
G 46	GF/ H32243G205	Feed Bar Shaft	1	1
G 47	GF/ H320G0662	Oil Wick	1	1
G 48	GF/ H32211G205	Bolt	2	2
G 49	GF/ H429050050	Bolt	1	1
G 50	GF/ H4805H8001	Feed Bar	1	
G 50	GF/ H4942H8001	Feed Bar		1
G51	GF/ H3200H2040	Screw	1	1
G 52	GF/ H2013J0065	Washer	1	1
G 53	GF/ H003002030	Nut		1
G 54	GF/ H429030140	Screw		1
G 55	GF/ H320H0653	Screw	1	1
G 56	GF/ H3205H0652	Felt	1	1
G 57	GF/ H4743H8001	Feed Bar Forked Connection	1	1
G 58	GF/ L100-23	Bracket	1	1
G 59	GF/ HK 1512	Needle Bearing HK 1512 IKO	1	1
G 60	GF/ M4x20	Screw (M4x20 DIN 912)	2	2



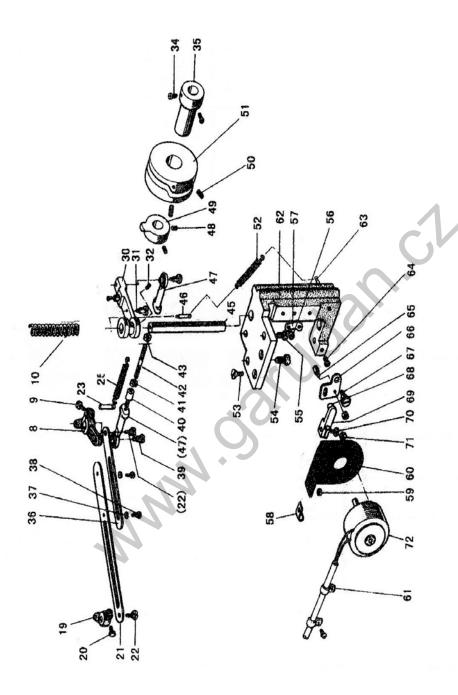


H

Ref. No.	Part No.	Name of Part	Q´ty			
		Tame or Fair	138/-3	238/-3	138/-6	238/-6
H1	GF/H3304I0651	Hook Saddle (right)	1	1	1.00/ 0	
H1	GF/H4906I8001	Hook Saddle (right)			1	1
H2	GF/H3207I0661	screw	1	2	1	1
Н3	GF/H3207I0662	Bushing	1	2	1	2
H4	GF/H4707I8001	Screw	3	6	3	6
H5	GF/H4706I8001	Hook Driving Gear (large)	1	2	1	2
Н6	GF/H4708I8001	Screw	1	2	1	2
H7	GF/H4709I8001	Screw	1	2	1	2
Н8	GF/H4705I8001	Hook Driving Gear (small)	1	2	1	2
Н9	GF/H3306I0067	Bobbin	1	2		
Н9	GF/H481I8001	Bobbin			1	2
H10	GF/H4922I8001	Spring			1	2
H11	GF/h4908i7101	Hook Complete			1	2
H11	GF/H4708I7101	Hook Complete	1	2		
H12	GF/H3204I0656	Oil Wick	2	4	2	4
H13	GF/K321531504	Opener Bracket Shaft	1	2	1	2
H14	GF/H321531204	Screw	1	2	1	2
H15	GF/H33131I204	Link	1	2	1	2
H16	GF/H33131I104	Opener Bracket	1	2	1	2
H17	GF/H2004J0067	Screw	1	2	1	2
H18	GF/H3200I2030	Washer	1	2	1	2
H19	GF/H3305I0066	Opener	1	2	1	2
H20	GF/H005008050	Spring Washer	1	2	1	2
H21	GF/HA104G0658	Nut	1	2	1	2
H22	GF/H33121I104	Hook Shaft Bushing (upper)	1	2		
H22	GF/H4909I8001	Hook Shaft Bushing (upper)			1	2
H23	GF/H3204I0657	screw	1	2	1	2
H24	GF/H3312I204	Washer	1	2		
H24	GF/H4910I8001	Washer			1	2
H25	GF/H3204I0653	Hook Shaft Bushing (lower)	1	2		
H25	GF/H1911I8001	Hook Shaft Bushing (lower)			1	2
H26	GF/H2013J0065	Washer	1	2	1	2
H27	GF/H3200I2050	Screrw	1	1	1	1
H28	GF/H3204I0659	Nut	1	2		
H28	GF/H4914I8001	Nut			1	2
H29	GF/H3204I0658	Screw	1	2		
H29	GF/H4915I8001	Screw			1	2
H30	GF/HA305E0662	Screw			2	4
H31	GF/H4917I8001	Hook Saddle (left)				1
H31	GF/H3307I0681	Hook Saddle (left)		1		
H32	GF/H3200I2050	Screw	1	2		
H32	GF/H4913I8001	Screw			1	2



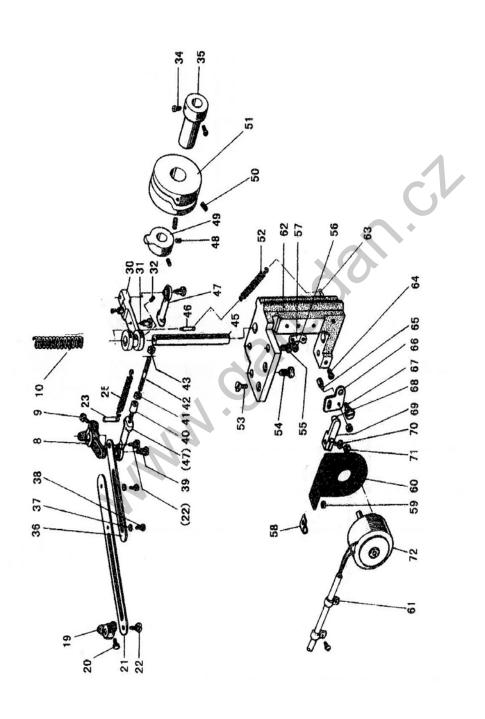
Ref. No.		Part No.	Name of Part	Q´ty	1
				GF/138	GF/238
11	GF/	H4905J8001	Screrw	1	2
12	GF/	H4906J8001	Bolt	1	2
13	GF/	H4907J8001	Trimming Knife Holder	1	2
14	GF/	H4908J8001	Screw	1	2
15	GF/	H4909J8001	Fixed Blade	1	2
16	GF/	H4914B8001	Screw	2	4
17	GF/	H4911J8001	Moved Knife	1	2
18	GF/	H4912J8001	Screw	1	2
19	GF/	H4913J8001	Screw	1	2
I10	GF/	H4914J8001	Spring Plate	1	2
I11	GF/	H4915J8001	Screw	3	6
I12	GF/	H4916J80001	Reversing Spring	1	2
I13	GF/	H4917J8001	Guide	1	1
I14	GF/	H4920J8001	Roller	1	2
I 15	GF/	H4921J8001	Lever	1	2
I16	GF/	H4922J8001	Cover	1	1
l 17	GF/	H4923J8001	Guide (right)	1	1
I 18	GF/	H4924J8001	Knife Pad (right)	1	1
I 19	GF/	H4925J8001	Screw	1	1
120	GF/	H4926J8001	Knife Pad (left)	1	1
121	GF/	H4927J8001	Cover	1	1
			. ?		
		N.			
		N			
		1/2			
		112			



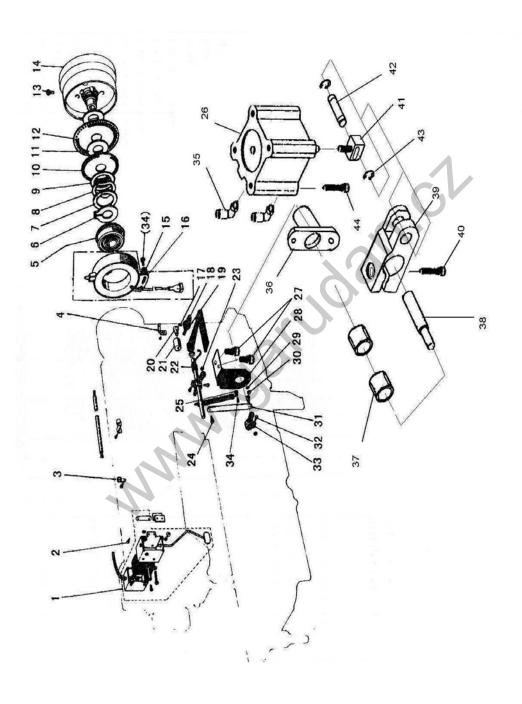
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J

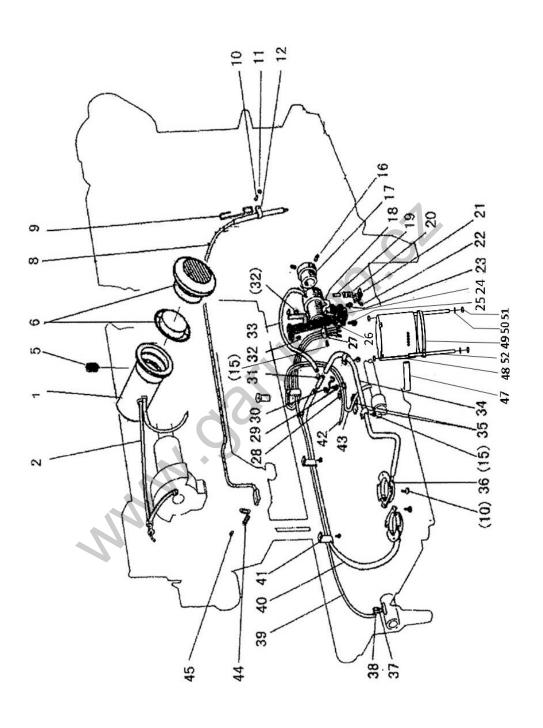


Ref. No.		Part No.	Name of Part	Q'ty	05/000
		111000110001			GF/238
J61	GF/	H4980K8001	Holder	2	2
J62	GF/	H4965K8001	Set Plate	1	1
J63	GF/	H3700E2080	Pin Type	1	1
J 64	GF/	H4969K8001	Screw	1	1
J65	GF/	H4970K8001	Screw	1	1
J66	GF/	H4971K8001	Lever	1	1
J67	GF/	H4972K8001	Screw	1	1
J68	GF/	H4973K8001	Pin	1	1
J69	GF/	H4974K8001	Arm	1	1
J70	GF/	HA111G0683	Screw	1	1
J71	GF/	HA7111N304	Nut	1	1
J72	GF/	H4979K8001	Solenoid Complete	1	1



Ref. No.	Part No.	Name of Part	Q´ty	
			GF/138	GF/238
K1	GF/ H4905L7101	Touth Switch Complete	1	1
K2	GF/ H4918L8001	Screw	4	4
K3	GF/ HA700Q0030	Holder	2	2
K4	GF/ H49922L8001	Holder	1	1
K5	GF/ H3205J0662	Ball Bearing	1	1
K6	GF/ H007009300	Retaining Ring C-type	1	1
K7	GF/ HA700R0060	Washer	1	1
K8	GF/ HA700R0050	Support Spring	1	1
K9	GF/ HA700R0040	Spacer	1	1
K10	GF/ H4928L8001	Speed Command Disk F20 (up)	1	1
K11	GF/ HA700R0030	Spacer A	2	2
K12	GF/ H4930L8001	Speed Command Disk F11 (down)	1	1
K13	GF/ HA110D0672	Screw	2	2
K14	GF/ H4931L8001	Pulley (complete)	1	1
K 15	GF/ HA703R0067	Washer	1	1
K16	GF/ HA703R0065	Detector Bracket (complete)	1	1
K 17	GF/ HA3411D308	Screw	1	1
K 18	GF/ H4936L8001	Lever	1	1
K 19	GF/ HA113F0684	Screw	1	1
K20	GF/ H4937L8001	Screw	1	1
K21	GF/ H4938L8001	Rubber Ring	1	1
K22	GF/ H4939L8001	Spring	1	1
K23	GF/ H4940L8001	Nut	2	2
K24	GF/ H4941L8001	Screw	2	2
K 25	GF/ M4	Nut M4	1	1
K26	GF/ CQ2B25-15D	Air Cylinder CQ2B25-15D SMC	1	1
K27	GF/ M6x10	Screw M6x10 DIN 912	2	2
K 28	GF/ L100-55	Bracket	1	1
K 29	GF/	Spring Washer	2	2
K30	GF/ M4	Nut M4	2	2
K31	GF/ H4948L8001	Link	1	1
K32	GF/ H4949L8001	Blot	1	1
K 33	GF/ H4950L8001	Arm	1	1
K 34	GF/ M4x10	Screw M4x10 DIN84A	2	2
K 35	GF/ KQ2L04-M5	Fitting SMC	2	2
K36	GF/ L100-51	Bushing	1	1
K37	GF/ HK 1010	Needle Bearing HK 1010 SKF	2	2
K38	GF/ L100-54	Shaft	1	1
K39	GF/ L100-50	Crank	1	1
K 40	GF/ M6x16	Screw (M6x16 DIN 912)	1	1
K 41	GF/ L100-53	Remove Lever	1	1
K 42	GF/ L100-52	Pin	1	1
K 43	GF/ 4	E-ring 4 DIN 6799	2	2
K 44	GF/ M4x40	Screw M4x40 DIN 912	3	3

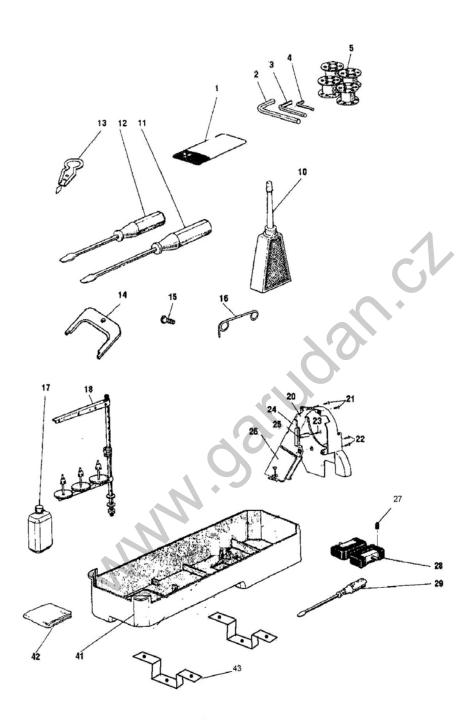
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Ref. No.		Part No.	Name of Part	Q´ty	I
				GF/138	GF/238
L1	GF/ L10		Oil Reservoar	1	1
L2	GF/	H4705J7101	Oil Pipe comlete	1	1
L5	GF/	M5x5	Screw M5x5 DIN 551	1	1
L6	GF/	K56042282015	Oil Control Peephole cat.No.28004-2282015	1	1
L8	GF/	H4711J7101	Oil Reservoir Comlete	1	1
L9	GF/	H4713J8001	Holder	1	1
L10	GF/	HA7311CC06	Screrw	7	7
L11	GF/	HA100I2050	Spring Washer	1	1
L12	GF/	H2000M0110	Holder	1	1
L16	GF/	H3230K0751	Screw	2	2
L17	GF/	H4716K8001	Bushing	1	1
L18	GF/	H3215K0696	Oil Pipe	1	1
L19	GF/	H1100l2070	Pin	1	1
L20	GF/	H1100I2090	Spring	1	1
L21	GF/	H1100l2120	Spring Holder	1	1
L22	GF/	H3204D6510	Screw	1	1
L23	GF/	H3215K0693	Screw	1	1
L24	GF/	H3215K0692	Filter	1	1
L25	GF/	H3215K0694	Screw	1	1
L26	GF/	H4718J7101	Mounting Plate Complete	1	1
L27	GF/	H3215K0695	Holder	1	1
L28	GF/	H3200K0170	Holder	1	1
L29	GF/	HA7311CC06	Pin		1
L30	GF/	H3210K0674	Holder		1
L31	GF/	H3210K0671	Oil Pipe Joint		1
L32	GF/	HA100E2150	Screw	4	4
L33	GF/	H4721J8001	Oil Pipe diam.3x1x90		1
L34	GF/	H4805J8001	Oil Pipe diam.3x1x370	1	
L35	GF/	H4723J8001	Oil Pipe diam.3x1x300		1
L36	GF/	H2000M0110	Holder	3	3
L37	GF/	H3211K0068	Oil Reservoir Comlete	2	2
L38	GF/	H3200K0180	Oil Wick diam.2.5x35	3	3
L39	GF/	H4735J8001	Oil Pipe	1	1
L40	GF/	H4724J8001	Oil Pipe diam.3x1x445	1	1
L41	GF/	H3200K0160	Holder	3	3
L42	GF/	H4725J7101	Oil Wick	1	1
L43	GF/	H4728J7101	Oil Wick	1	1
L44	GF/	H4731J8001	Holder	1	1
L45	GF/	HA300C2030	Screw	1	1
L46	GF/			-	
L47	GF/	L100-G3	Oil Tube	1	1
L48	GF/	L100-G2	Oil Box	1	1
L49	GF/	L100-G1	Oil Cover	1	1
L50	GF/	A5	Washer	2	2
L51	GF/	M5	Nut	4	4
L52	GF/	L100-G5	Thread Shaft	2	2

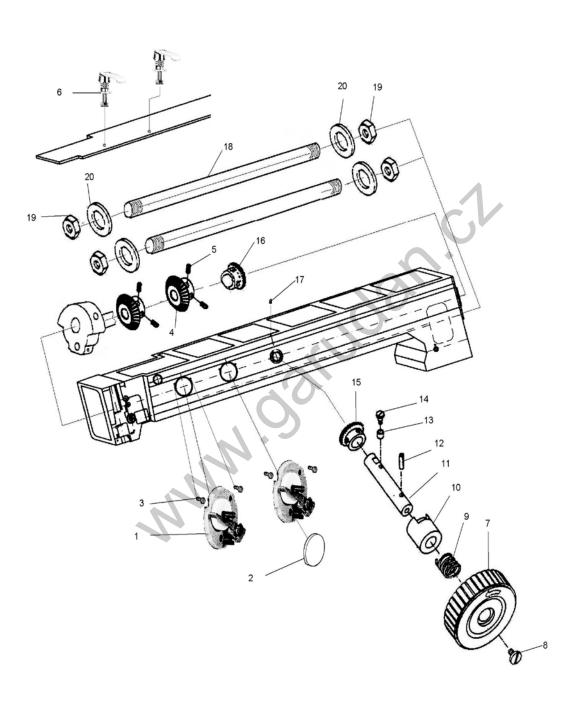
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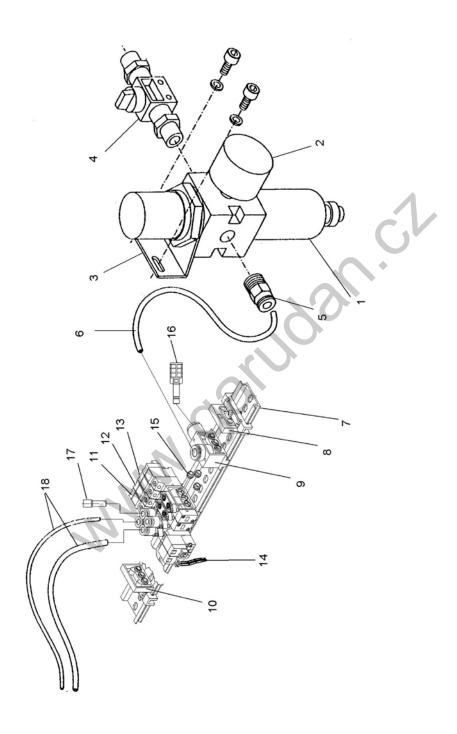
Ref. No.	Part No.	Name of Part	Q´ty			
			-	238/-3	138/-6	238/-6
M 1	GF/H4740F8001	Needle DPx17-23	3	6	3	6
M2	GF/H3209L8001	Socet Wrench			1	1
М3	GF/H3208L8001	Socet Wrench	1	1	1	1
M 4	GF/H4905N8001	Socet Wrench			1	1
M 5	GF/H3306I0067	Bobbin	2	4		
M 5	GF/H49121I8001	Washer			2	4
M 10	GF/HA100J2110	Oiler	1	1	1	1
M 11	GF/HA100J2140	Screw Driver (middle)	1	1	1	1
M12	GF/HA100J2150	Screw Driver (small)	1	1	1	1
M 13	GF/H3207L0065	Thread a Needle Kit	1	1	1	1
M 14	GF/HA704S0654	Adjusting Plate for Speed Command Disk			1	1
M 15	GF/H409030060	Screw			1	1
M16	GF/H4907N8001	Thread Guide			1	1
M 17	GF/H3200L0130	Oil Can	1	1	1	1
M 18	GF/H3200L0120	Cotton Stand	1		1	
M 18	YH/FPL-4	Cotton Stand		1		1
M 20	GF/H2008O0068	Belt Cover			1	1
M 21	GF/HA300C2170	Screw			2	2
M 22	GF/HA300J2280	Screw	2	2	2	2
M 23	GF/HA300J2250	Screw			1	1
M 24	GF/H2405B6601	Belt Cover Complete	1	1		
M 24	GF/H4953N7101	Belt Cover Complete			1	1
M 25	GF/H003008040	Nut			1	1
M 26	GF/HA305J0665	Belt Cover	1	1	1	1
M 27	GF/M6x15	Screw M6x15 DIN 551	2	2	2	2
M 28	GF/HA307J0067	Hinge Complete	2	2	2	2
M 29	GF/HA300J2070	Screw Driver (large)	1	1	1	1
M 41	GF/L100-18	Oil Pan	1	1	1	1
M 42	GF/HA100J2180	Vinyl Cover	1	1	1	1
M 43	GF/L100-19	Oil Pan Holder	2	2	2	2

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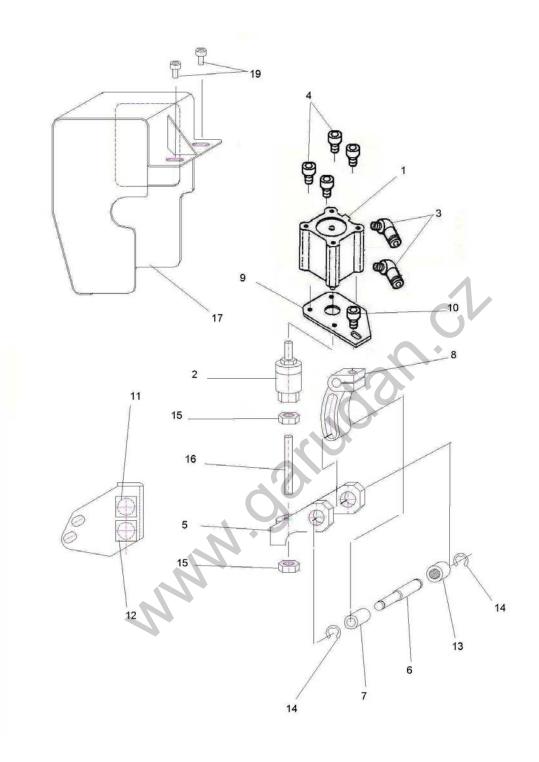


Ref. No.	Part No.	Name of Part	Q´ty GF/138	GF/238
N 1	GF/ H98A030	Bobbin Winder	1	2
N2		Plug	1	
N3		Screw	4	4
N4	GF/ L100-09	Bevel Gear	1	2
N5	GP/ 341901	Screw M6x0.75x6	2	4
N6	P/ P98002524800	Thread Retainer	1	2
N7	S/ 25S004S-306H	Hand Pulley	1	1
N8	S/ 25S012S-306H	Screw	1	1
N9	S/ 25S011S-306H	Hand Pulley Spring	1	1
N10	S/ 25S009S-306H	Bushing	1	1
N11	S/ 25S005S-306H	Shaft	1	1
N12	S/ 25S008S-306H	Spring Pin	1	1
N13	S/ 25S007S-306H	Hand Pulley Roller	1	1
N14		Hand Pulley Roller Hinge Screw	1	1
N 15	S/ 25S001S-306H	Hand Pulley Gear B	1	1
N16	GF/ L100-56	Hand P. Gear B(Modification 25S001S-306H)	1	1
N 17	GF/ M5x8	Screw M5x8 DIN 551	1	1
N18	GF/ L100-04	Strain Shaft	2	2
N19	GF/ M12	Nut M12 DIN 934 ISO 4032 BN 116 KI.8	4	4
N 20	GF/ 12	Washer 12x24x0.5 DIN 988 BN 748	4	4

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Ref. No.		Part No.	Name of Part	Q´ty	
				GF/138	GF/238
01	GF/	AW20-F02H	Filter Regulator AW20-F02H SMC	1	1
02	GF/	G36-10-01	Manometr G36-10-01	1	1
О3	GF/	ARP20P-270AS	Holder SRP20P-270AS	1	1
04	GF/	VHK3-08F-02S	Finger Valve VHK3-08F-02S	1	1
O5	GF/	KQ2H08-02S	Tube Connector KQ2H08-02S	1	1
06	GF/	TU0805BU-20	Air Tube TU0805BU-20 (20m)	30cm	30cm
07	GF/	VZ1000-11-3-1000	Bracket Ledge VZ1000-11-3-1000	1	1
08	GF/	SY3000-56-1A-Q	Terminal panel SY3000-56-1A-Q	1	1
09	GF/	SY3000-55-1A-Q	Input Block SY3000-55-1A-Q	1	1
O 10	GF/	SY3000-56-1B-Q	Terminal panel SY3000-56-1B-Q	1	1
011	GF/	SY3160-5LOU	Solenoid Valve SY3160-5LOU-C4-Q Table D	1	1
O12	GF/	SY3160-5LOU	Solenoid Valve SY3160-5LOU-C4-Q Table B	1	1
O13	GF/	SY3160-5LOU	Solenoid Valve SY3160-5LOU-C4-Q Table K	1	1
O14	GF/	SY100-30-4A-20	Solenoid Connector SY100-30-4A-20	3	3
O 15	GF/	SY3000-52-5A	Connecting Ring SY3000-52-5A	3	3
O16	GF/	AN203-KM8	Silencer AN203-KM8 (for sol.No.12)	1	1
O 17	GF/	KQ2P-04	Plug KQ2P-04	1	1
O18	GF/	TU0425BU-20	Air Tube TU0425BU-20 (20m)	8m	8m
0.04(44)	05/	0)/0400 51 011			
021(11)		SY3160-5LOU	Solenoid Valve SY3160-5LOU-C4-Q Table P	1	1
O 22(14)		SY100-30-4A-20	Solenoid Connector SY100-30-4A-20	1	1
O 23(18)	GF/	TU0425BU-20	Air Tube TU0425BU-20 (20m)	4m	4m
			*Def No 24 22 22 for the Asserted Alternation		
			*Ref.No.21,22,23-for the Acvanced Alternating		
			Presser Foot Mechanism-table P		
			-určeno pro předzdvih kráčející patky-		
			- viz. tab. P		
		MANN			
		~			



Ref.No.	Part No.	Name of Part	Q´ty	
			GF/138	GF/238
P1	GF/CQ2B20-30D	Air Cylinder CQ2B20-30D SMC	1	1
P2	GF/JA15-5-080	Kompenzační hlavice SMC	1	1
P3	GF/KQ2L04-M5	Fitting SMC	2	2
P4	GF/M5x50	Screw M5x50 DIN 912	4	4
P5	GF/41	Bracket	1	1
P6	GF/42	Pin	1	1
P7	GF/44	Roller	1	1
P8	GF/45	Lever (modification H4709E8001)	1	1
P9	GF/46	Holder	1	1
P10	GF/47	Screw (modification M8x25 DIN 912)	1	1
P11	GF/AL1Q-M11-A	Push Button AL1Q-M11-A (orange)	1	1
P12	GF/AB1Q-M1-S	Push Button AB1Q-M1-S (blue)	1	1
P13	GF/HK0709	Needle Bearing HK0709 SKF	1	1
P14	GF/4	E-Ring 4 DIN 6799	2	2
P15	GF/M5	Nut M5 DIN 934	2	2
P16	GF/M5x30	Screw M5x30 DIN915 (DIN551)	1	1
P17	GF/48	Cover	1	1
P18				
P19	GF/M5x15	Screw M5x15 DIN 912	2	2

	Straightening Presser Foot Kompenzační patka	Presser Foot Zadní patka	Notice Poznámka	
5/16" (8mm)	SM21-1S	SM21-2	5	
3/8" (9.5mm)	SM20-1S	SM20-2		
1/2" (12.7mm)	SM19-1S	SM19-2		
	W 001			

Gauge Parts List

W.				CE .					
Needle Plate	Presser Foot (Inside)	Presser Foot	Needle Clamp	Feed Dog	Slide Plate(L)	Slide Plate(R)			
H4737B8001	H4741F8001	H4758E8001	H4750F8001	H4745H8001	H4732B8001	H4733B8001			
H4738B8001	H4742F8001	H4759E8001	H4751F8001	H4746H8001	H4732B8001	H4733B8001			
H4739B8001	H4743F8001	H4760E8001	H4752F8001	H4747H8001	H4732B8001	H4733B8001			
H4734B8001	H4737F8001	H4757E8001	H4739F8001	H4744H8001	H4732B8001	H4733B8001			
H4740B8001	H4744F8001	H4761E8001	H4753F8001	H4748H8001	H4746B8001	H4733B8001			
H4741B8001	H4745F8001	H4762E8001	H4754F8001	Н4749Н8001	H4746B8001	H4733B8001			
H4742B8001	H4746F8001	H4763E8001	H4755F8001	Н4750Н8001	H4747B8001	H4750B8001			
H4743B8001	H4747F8001	H4764E8001	H4756F8001	H4751H8001	H4747B8001	H4750B8001			
H4744B8001	H4748F8001	H4765E8001	H4757F8001	Н4752Н8001	H4748B8001	H4750B8001			
H4745B8001	H4749F8001	H4766E8001	H4758F8001	Н4753Н8001	H4749B8001	H4750B8001			
GF-230-446 MH									
H4937B8001	H4741F8001	H4758E8001	H4750F8001	H4945H8001	H4732B8001	H4733B8001			
H4938B8001	H4742F8001	H4759E8001	H4751F8001	H4946H8001	H4732B8001	H4733B8001			
H4939B8001	H4743F8001	H4760E8001	H4752F8001	H4947H8001	H4732B8001	H4733B8001			
H4917B8001	H4737F8001	H4757E8001	H4739F8001	H4944H8001	H4732B8001	H4733B8001			
H4940B8001	H4744F8001	H4761E8001	H4753F8001	H4948H8001	H4746B8001	H4733B8001			
H4941B8001	H4745F8001	H4762E8001	H4754F8001	H4949H8001	H4746B8001	H4733B8001			
H4942B8001	H4746F8001	H4763E8001	H4755F8001	H4950H8001	H4747B8001	H4733B8001			
H4943B8001	H4747F8001	H4764E8001	H4756F8001	H4951H8001	H4747B8001	H4733B8001			
H4944B8001	H4748F8001	H4765E8001	H4757F8001	H4952H8001	H4748B8001	H4750B8001			
H4945B8001	H4749F8001	H4766E8001	H4758F8001	H4953H8001	H4749B8001	H4750B8001			
1		121			, ,,,				
H4814B8001	H4807F8001	H3100G2110		H4807H8001	H4812B8001	H4813B8001			
GF-130-446 H									
H5014B8001	H4807F8001	H3100G2110		H5004H8001	H4812B8001	H4813B8001			
	H4737B8001 H4738B8001 H4739B8001 H4734B8001 H4740B8001 H4741B8001 H4742B8001 H4743B8001 H4745B8001 H4937B8001 H4937B8001 H4938B8001 H4940B8001 H4940B8001 H4941B8001 H4942B8001 H4943B8001 H4943B8001	Needle Plate Presser Foot (Inside) H4737B8001 H4741F8001 H4739B8001 H4742F8001 H4734B8001 H4737F8001 H4740B8001 H4744F8001 H4741B8001 H4745F8001 H4742B8001 H4747F8001 H4743B8001 H4747F8001 H4744B8001 H4749F8001 H4745B8001 H4749F8001 H4937B8001 H4741F8001 H4938B8001 H4743F8001 H4939B8001 H4743F8001 H4940B8001 H4744F8001 H4941B8001 H4744F8001 H4942B8001 H4747F8001 H4943B8001 H4747F8001 H4943B8001 H4747F8001 H4945B8001 H4749F8001 H4945B8001 H4749F8001 H4945B8001 H4749F8001	Needle Plate Presser Foot (Inside) Presser Foot Foot H4737B8001 H4741F8001 H4758E8001 H4738B8001 H4742F8001 H4760E8001 H4739B8001 H4743F8001 H4760E8001 H4734B8001 H4737F8001 H4761E8001 H4740B8001 H4745F8001 H4762E8001 H4742B8001 H474F8001 H4763E8001 H4743B8001 H474F8001 H4764E8001 H4744B8001 H474F8001 H4765E8001 H4745B8001 H4749F8001 H4766E8001 H4937B8001 H4741F8001 H4766E8001 H4938B8001 H4741F8001 H4759E8001 H4933B8001 H4743F8001 H4760E8001 H4917B8001 H4743F8001 H4761E8001 H4940B8001 H4744F8001 H4761E8001 H4941B8001 H4744F8001 H4762E8001 H4942B8001 H4746F8001 H4763E8001 H4943B8001 H474F8001 H4763E8001 H4943B8001 H474F8001 H4763E8001 H4944B8001 H4748F8001	Needle Plate Presser Foot (Inside) Presser Foot Poot Presser Foot Poot Needle Clamp H4737B8001 H4741F8001 H4759E8001 H4750F8001 H4738B8001 H4742F8001 H4759E8001 H4751F8001 H4734B8001 H4737F8001 H4760E8001 H4739F8001 H4740B8001 H474F8001 H4761E8001 H4753F8001 H4741B8001 H4745F8001 H4762E8001 H4754F8001 H4742B8001 H474F8001 H4762E8001 H4755F8001 H4743B8001 H474F8001 H4764E8001 H4756F8001 H4744B8001 H474F8001 H4765E8001 H4757F8001 H4745B8001 H4749F8001 H4766E8001 H4759F8001 H4937B8001 H4741F8001 H4765E8001 H4750F8001 H4938B8001 H4741F8001 H4759E8001 H4759F8001 H4939B8001 H4743F8001 H4760E8001 H4759F8001 H4940B8001 H4747F8001 H4762E8001 H4754F8001 H4941B8001 H474F8001 H4762E8001 H4754F8001 H4943B	Needle Plate Presser Foot (Inside) Presser Foot (Inside) Presser Foot Foot Needle Clamp Feed Dog H4737B8001 H4741F8001 H4759E8001 H4750F8001 H4746H8001 H4746H8001 H4739B8001 H4743F8001 H4760E8001 H4752F8001 H4747H8001 H4747H8001 H4734B8001 H4737F8001 H4757E8001 H4739F8001 H4744H8001 H4744H8001 H4741B8001 H4745F8001 H4761E8001 H4753F8001 H4749H8001 H4749H8001 H4742B8001 H4747F8001 H4762E8001 H4755F8001 H4750H8001 H4759H8001 H4755F8001 H4750H8001 H4743B8001 H4747F8001 H4766E8001 H4757F8001 H4751H8001 H4751H8001 H4757F8001 H4757F8001 H4753H8001 H4745B8001 H4749F8001 H4766E8001 H4759F8001 H4753H8001 H4759F8001 H4759F8001 H4759F8001 H4947H8001 H4937B8001 H4741F8001 H4766E8001 H4751F8001 H4947H8001 H4947B8001 H4744F8001 H4759F8001 H4947B8001 H4944H8001	Needle Plate Presser Foot (Inside) Pres			