

User's Manual
and Spare Parts Book

**GARUDAN**®

GF-3317-448 MH



ANITA B, s.r.o.

Průmyslová 2453/7

680 01 Boskovice

Czech Republic

tel: +420 516 454 774

+420 516 453 496

fax: +420 516 452 751

e-mail: info@anita.cz

www.garudan.cz

All rights reserved

Property of Anita B and protected by copyright. The use of this content without written permission is prohibited.

Copyright © Anita B s.r.o. (2015)

Content

1. SPECIFICATION.....	4
2. SAFETY MEASURES	5
3. COMMISSIONING THE MACHINE	6
4. PRECAUTION BEFORE USING	7
5. INSTRUCTION FOR THE DISPOSAL.....	7
6. INSTALLING THE THREAD STAND	8
7. LUBRICATION.....	8
8. INSTALLING THE BELT COVER	9
9. INSTALLING THE KNEE LIFTER	9
10. HOW TO INSTALL THE NEEDLE.....	10
11. HOW TO INSTALL THE BOBBIN.....	10
12. HOW TO THREAD THE MACHINE HEAD	11
13. ADJUSTING THE STITCH LENGTH.....	12
14. THREAD TAKE-UP SPRING	12
15. LIFTING THE PRESSER FOOT.....	13
16. ADJUSTING THE PRESSER FOOT PRESSURE.....	13
17. THREAD TENSION	14
18. NEEDLE TO HOOK RELATIONSHIP	15
19. HEIGHT OF THE FEED DOG	16
20. FORWARD REVERSE SEAM RATIO	16
21. FEED TIMING	17
22. ADJUSTING THE WALKING FOOT AND PRESSURE FOOT.....	17
23. AUXILIARY THREAD TENSION CONTROLLER	18
24. ONE-TOUCH TYPE REVERSE FEED STITCHING MECHANISM	19
25. ADJUSTMENT NEEDLE BAR STOP POSITION	19
26. ADJUSTING THE THREAD TRIMMING CAM	20
27. HOW TO REPLACE THE KNIVES	20
28. TROUBLE AND CORRECTIVE MEASURES	21

1. SPECIFICATION

Model	Usage	Max speed	Max stitch length	Needle system & size	Presser foot (knee/lifter)
GC-3317-443 MH	medium-heavy	2.000	7mm	135x17(110-140)	6/15 mm
GC-3317-448 MH	medium- heavy	2.000	7mm	135x17(110-140)	6/15 mm
GC-3318-443 MH	medium- heavy	2.000	7mm	135x17(110-140)	6/15 mm
GC-3318-448 MH	medium-heavy	2.000	7mm	135x17(110-140)	6/15 mm

Weight:

Machine head: 39 kg

Complete: 104 kg

Dimension:

Machine head: 28x67x58

Complete: 107x115x55 cm

General description and usage:

GC-3317 series – cylinder bed single-needle lockstitch industrial sewing machines with compound feed and horizontal large hook. Machines are designed for binding operations with medium and heavy materials like bags, suitcases and packings.

GC-3318 serie – cylinder bed single-needle lockstitch industrial sewing machines with triple feed and large horizontal hook. The machines are designed for sewing of medium and heavy materials.

2. SAFETY MEASURES

Do not put the machine into operation until an appropriate preparation is carried out by a specialist or an authorised person, and until you get acquainted with safety measures.

1. Any sewing machine may be operated only by a properly trained operator.
2. Take into consideration the safety regulations valid on your country.
3. The sewing machine may be used only for the operations for which it has been designed. Other operations are inadmissible.
4. All safety measure must be observed on the machine before putting into operation and during operation.
5. It is advisable to wear protective glasses to ensure personal safety when working on the machine
6. If you are going to make any modifications or changes on the machine observe the safety regulations. Modifications can only be made at your own risk.
7. The main switch of the machine must be switched off or the plug must be pulled out of the socket of mains supply when following operations are to be performed (if you use mechanically controlled clutch motors without a fuse preventing the machine from being started with the pedal until the motor stops).
 - 7.1 Threading the needle thread (threads), threading the looper thread, etc.
 - 7.2 Replacing needles, presser foot, stitch plate, looper bobbin, feed dog, needle guard, finger guard, cloth guide, etc.
 - 7.3 When you leave the workplace and you leave the machine unattended.
 - 7.4 Machine maintenance (cleaning).
8. Repairs, maintenance and modifications of the machine may be carried out only by a specialist or an authorised person. Only spare parts supplied by the machine builder should be used for repairs.
9. Works on the electrical part of the machine can only be carried out by an electrician or under an authorised person's control and supervision.
10. Working on „live“ parts and equipment is inadmissible.
11. Compressed air supply has to be disconnected before maintenance and repairs of pneumatic device. Residual compressed air has to be let off before the works can be done.
12. The user will be held responsible if safety measures given in the instructions for use are not observed.
13. An inseparable part of the instructions for use is the instruction for use of the respective drive which must be observed, as well. In particular point „Safety instructions“.

Important notices

Be careful!

Never set off the machine without the belt cover, you could be hurt.

To avoid disorders and damages, it is necessary to do these:

- Before the first setting off, clean and oil the machine properly .
- Check if the mains voltage is the same like the voltage written on the motor rating plate. If it isn't, never set off the machine .
- When the machine is running the handwheel, must be turned towards the person, If it isn't, the motor reverse polarity.
- Don't run the machine more than 3/4 its speed in first two weeks
- When you put the product off the machine put the needle bar to its highest position.

Safety instruction:

1. The machine can be used for it is needed. When you need to use different embodiments it is necessary to do all safety instruction.
2. It isn't allowed to run the machine without protective devices which it has from the manufacturing plant
3. Only education person can set the machine off and work with it.
4. When replacing sewing machines (needle, presser foot, throat plate, feed dog and bobbin, must be disconnected main switch.
5. Only experts can do wiring

3. COMMISSIONING THE MACHINE

To avoid disorders and damages of the machine you must do these:

Clean the machine from preservatives and put one or two drops oil to the hook remove the front cover and oil connecting rod, needle bar and thread lever. An expert must try if the electric equipment is all right including the electric voltage for motor and the handwheel of the machine must be turned towards the person (according to arrow). Don't use the highest speed of the machine in first two weeks sew to 3/4 the highest speed.

Be careful

Don't encroach the electric equipment of the machine, call an expert. There is a danger of electricity.

When you work with the machine or you are at it you must behave not to be hurt.

No liquid can be put into the electric equipment, it could be disordered. It is necessary to pay attention to safety instructions.

When you work with the machine be careful near the needle, shearing blades, thread lever and the pressure elements.

Be more careful when the head on the base is tipped not to tilt the machine with the base.

When you put the head of the machine into working position hold the head with your both hands. Then there can't be engagement between the machine and the plate of the base.

4. PRECAUTION BEFORE USING

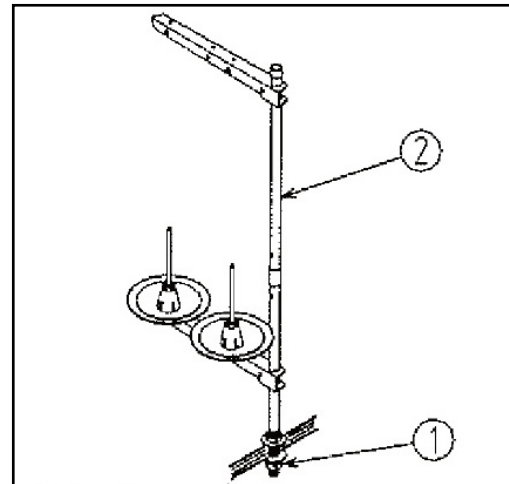
- A. Do not turn on the power as stepping the pedal
- B. Turn off the power when leaving the work place
- C. Be sure to turn the power off when repairing the sewing machine or changing the needle
- D. Make sure to connect the earthing
- E. Do not use multiple number of motors in one outlet
- F. Keep optional distance from the noise centre such as high-frequency weber operation
- G. Be careful of high tension power when disassembling the controller box. (Wait about ten Minutes after turning off the power before disassembling.)
- H. When an error comes along, verify the error code first and turn the power on again to use it.
- I. Make sure to hold the connector edge, facing the arrow mark when inserting or disassembling the frontal connector of the controller box. (Do not hold or pull the cable.)
- J. Check the belt tension.
- K. In case of a new machine which was delivered a long time ago or of a machine that has not been operated for an extend period, lubricate two or three times using the filling tube,
first mening up the face plate on such a places as the friction pat of the thread take-up unit, needle bar or presser bar.

5. INSTRUCTION FOR THE DISPOSAL

When the machine isn't possible to run because its technical life give it to the company ANITA B,s.r.o. for its disposal or you can give the machine to another company which is specialised for disposal of product.

6. INSTALLING THE THREAD STAND

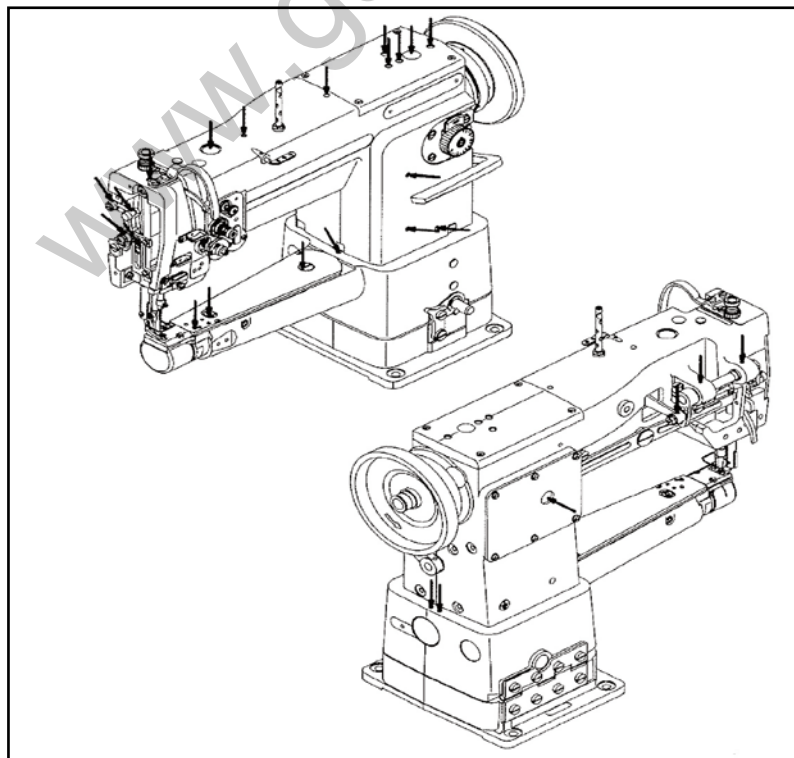
Assemble the Thread stand, and insert it in the hole in the machine table, and fix in by tightening nut (1). For ceiling wiring pass the power cord through spool rest rod (2). (fig 1)



(fig.1)

7. LUBRICATION

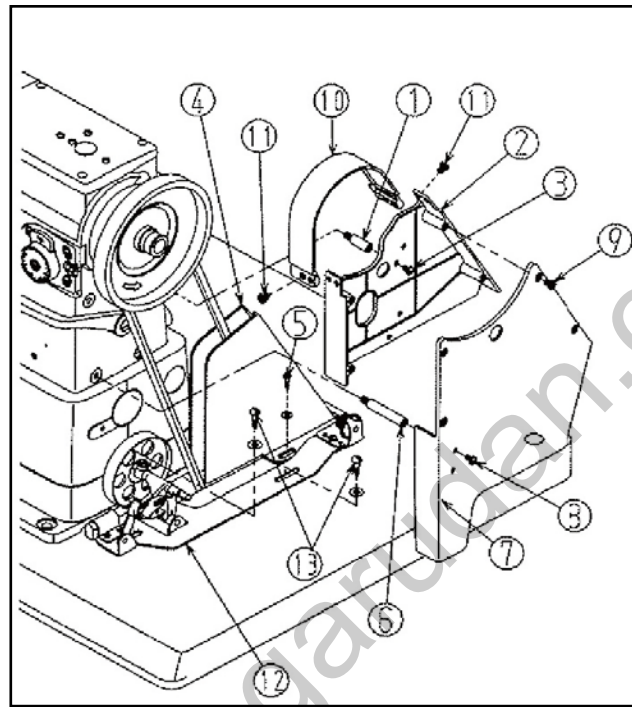
Prior to operation be sure properly lubricate the points marked with the arrows. When oiling all section requirring lubrication, after installation of the machine has been completed wait for a while (approximately 10 minutes) so that oil can penetrace each section sufficiently before starting continous operation. When starting the machine initially and after kept away for a long time without using at all, apply two or three drops of oil each section noted with an arrow mark, and to operate the machine continuosly, apply two or three drops of oil each section whenever starting operation in the morning and in the afternoon.



(fig.2)

8. INSTALLING THE BELT COVER

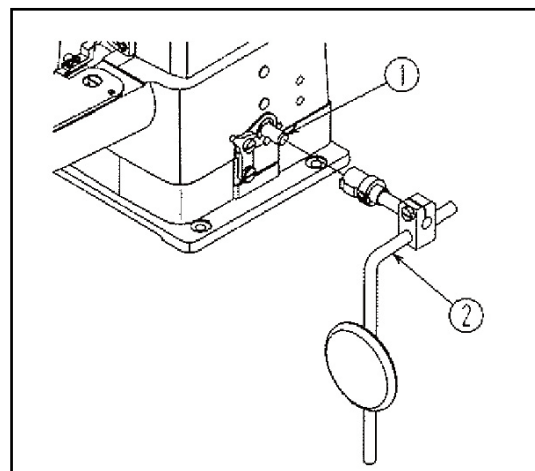
Install three belt cover supports (1) to the machine. Install the belt cover (2) to the belt cover supports using screws (3). Install the belt cover (4) to the table using the wooden screws (5). Install the belt cover support (6) to the machine and install the belt cover (7) to the belt cover support and the belt cover (2) using screws (8),(9). Install the belt cover (10) to the belt cover (2) using screws (11). Place boobin winder (12) in the belt cover, and position it so that it does not contact the belt cover before fixing it with the wooden screws (13). (fig.3)



(fig.3)

9. INSTALLING THE KNEE LIFTER

Installing the knee press plate asm (2) to the shaft (1). (fig.4)

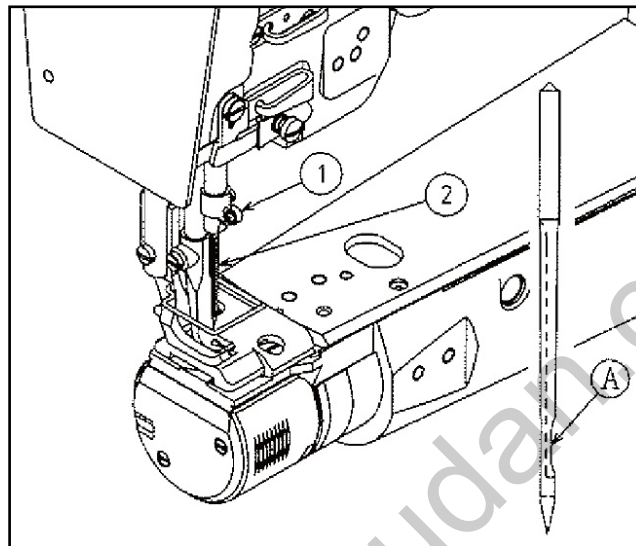


(fig.4)

10. HOW TO INSTALL THE NEEDLE

Be sure to power-off the motor. The normal needle system is „DPx17“.

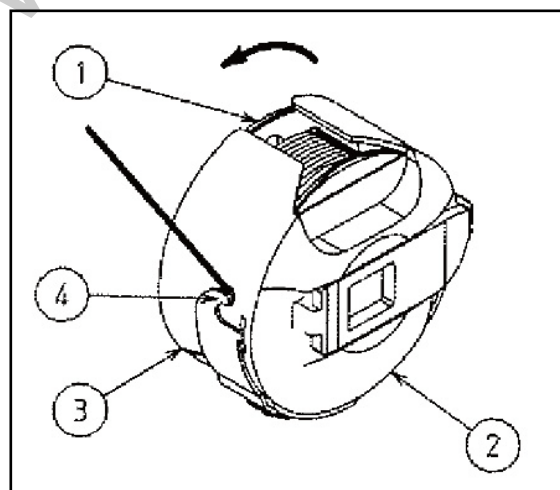
Turn the handwheel by hand and raise the needle bar to its top position. Loosen screw (1) and insert the needle (2) into the hole until it will go no further. Insert the needle with its recess (A) facing directly to the right-hand side. Securely tighten the screw in the needle. (fig.5)



(fig.5)

11. HOW TO INSTALL THE BOBBIN

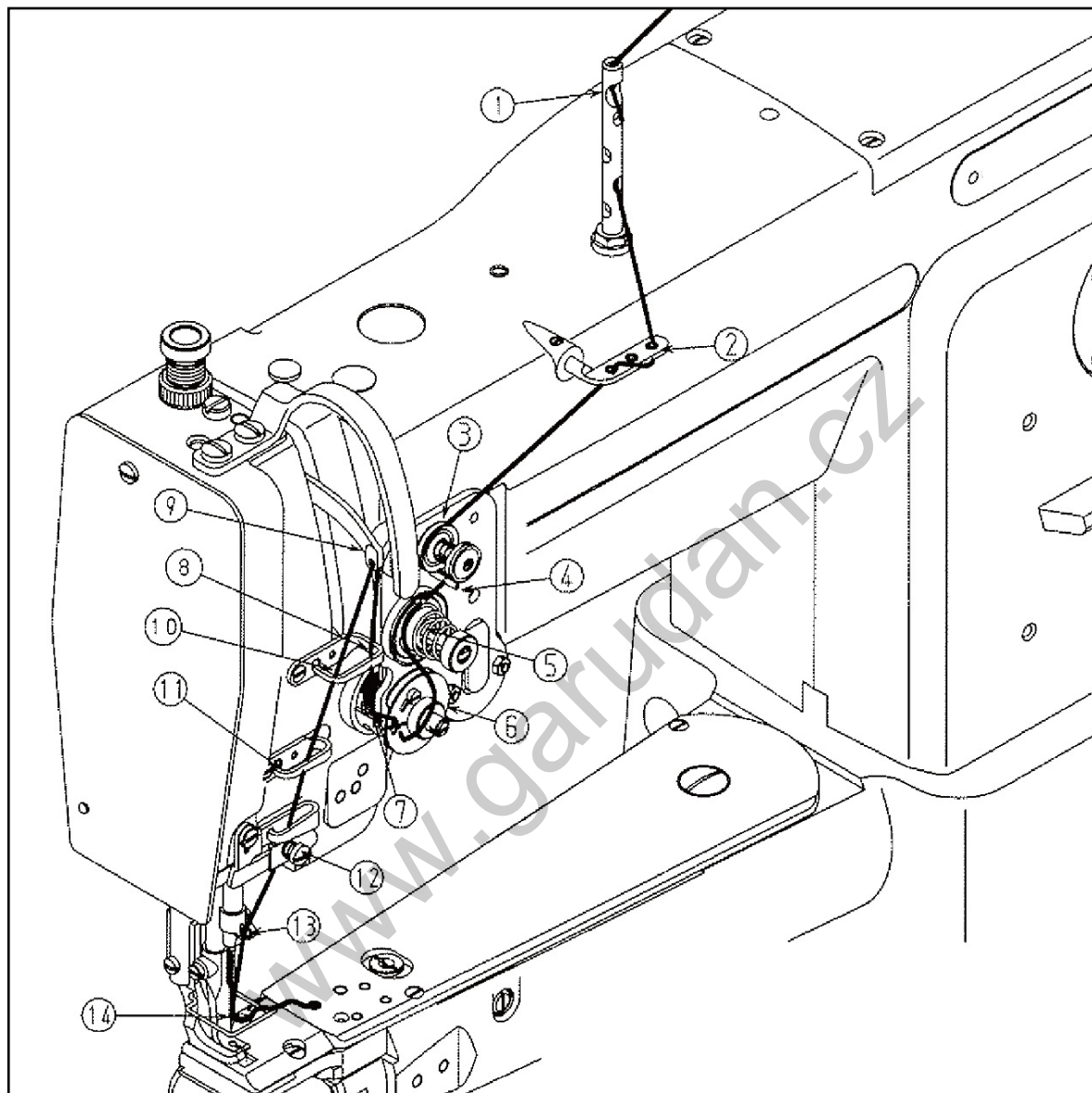
Put the bobbin (1) into the bobbin case (2). Pass the thread through the threading groove (3) and the notch (4) of tension spring in the bobbin case. Fit the bobbin in the bobincase so that the bobbin turns in the direction of the arrow when the bobbin thread is pulled. (fig.6)



(fig.6)

12. HOW TO THREAD THE MACHINE HEAD

Thread the machine head as illustrated. (fig.7)



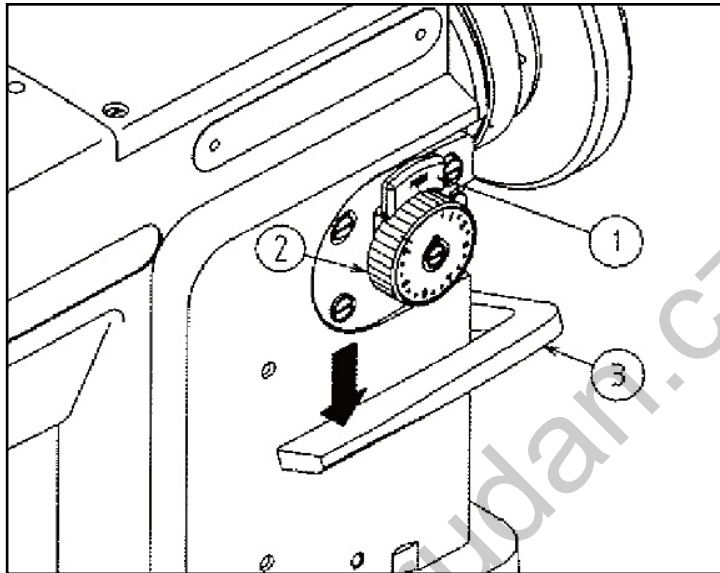
(fig.7)

13. ADJUSTING THE STITCH LENGTH

To adjusting the stitch length push lock plate (1). Align the stitch length dial (2) indicator to the line of the lock plate turning stitch length dial counterclockwise or clockwise.

Reverse stitching

Push the feed lever (3) down. The machine performs reverse feed stitching as long as the lever is held depressed. The moment you release the lever, the machine resumes the normal stitching mode.



(fig.8)

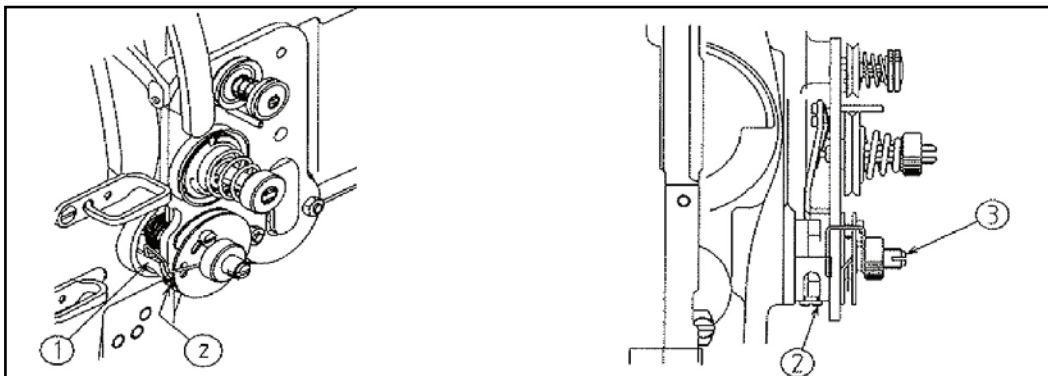
14. THREAD TAKE-UP SPRING

Adjusting the thread take-up spring stroke

Loosen setscrew (2), and turn the adjusting plate (1). Turn the adjusting plate (1) to the right (counterclockwise), increase its moving range. Turn the adjusting plate (1) to the left, decrease its moving range.

Adjusting the thread take-up spring tension

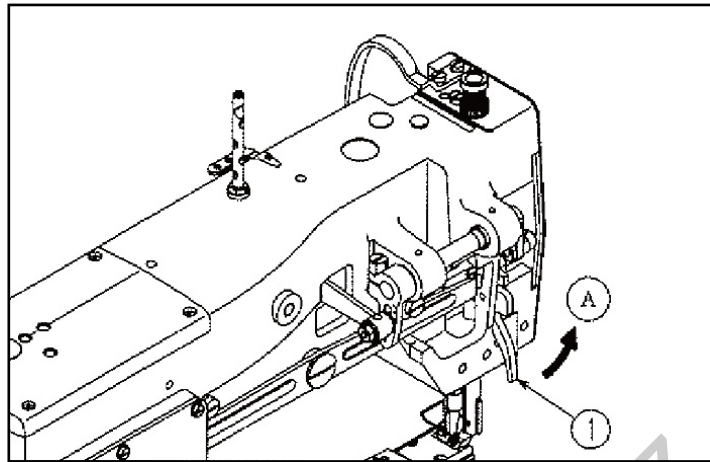
Turn the tension stud (3) over toward left to increase tension. Turn it to the right, decrease tension. (fig.9)



(fig.9)

15. LIFTING THE PRESSER FOOT

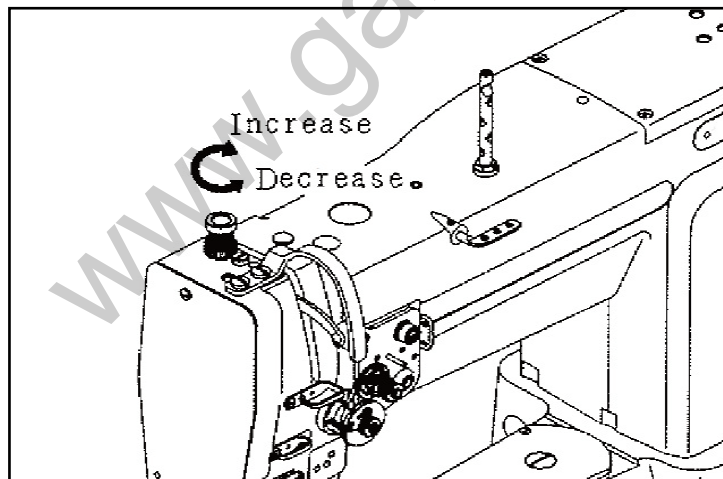
Turn the hand lifter (1) toward (A), presser foot up. (fig.10)



(fig.10)

16. ADJUSTING THE PRESSER FOOT PRESSURE

Turn the presser spring regulator to the right to increase and to the left to decrease pressure. (fig.11)



(fig.11)

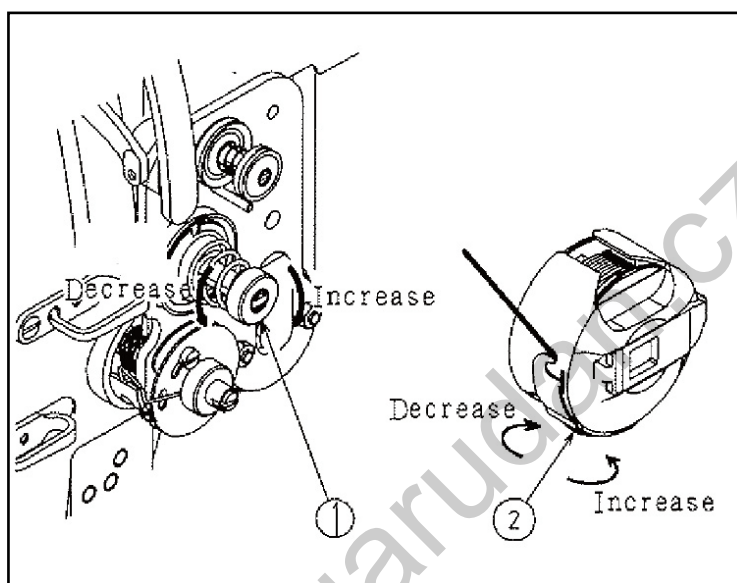
17. THREAD TENSION

Adjusting the needle thread tension

Turn the thread tension nut (1) clockwise to increase or counterclockwise to decrease the needle thread tension. (fig.12)

Adjusting the bobbin thread tension

Turn the tension screw (2) clockwise to increase or counterclockwise to decrease the bobbin thread tension. (fig.12)



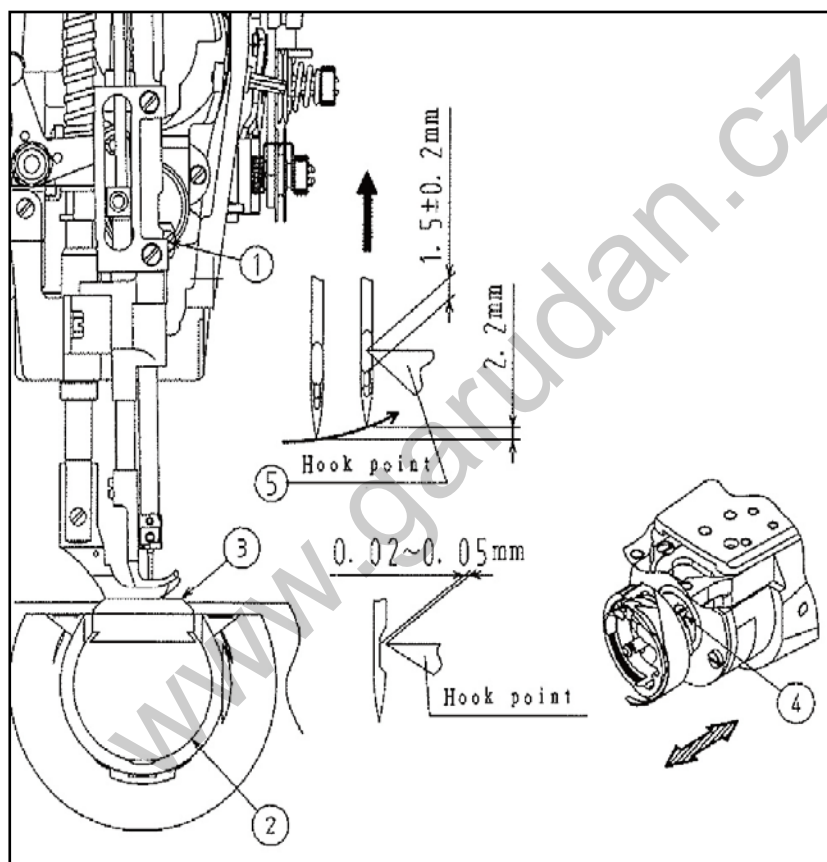
(fig.12)

18. NEEDLE TO HOOK RELATIONSHIP

Remove throat plate (3) and hook cover (2). Bring the needle bar down to its lowest point. Loosen the needle bar clamp screw (1). Bring the needle bar up to 2,2 mm from its lowest point turning the handwheel. Adjust the distance between the top edge of needle eylet and hook point (5) to 1,5 mm when hook point nearly meet the center of needle then tighten the needle bar clamp screw (1).

The needle to hook clearance

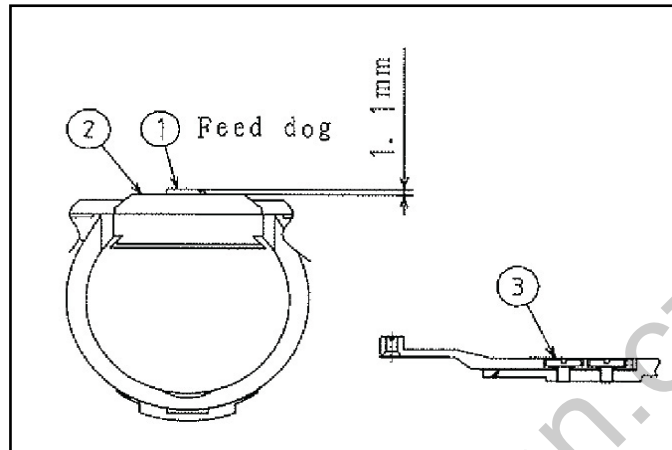
Loosen screws (4) in the hook and move the hook to the right or left until a clearance of 0,02 to 0,05 mm is provided between the blade point of the hook and needle. After the adjustment, securely tighten the screws.



(fig.13)

19. HEIGHT OF THE FEED DOG

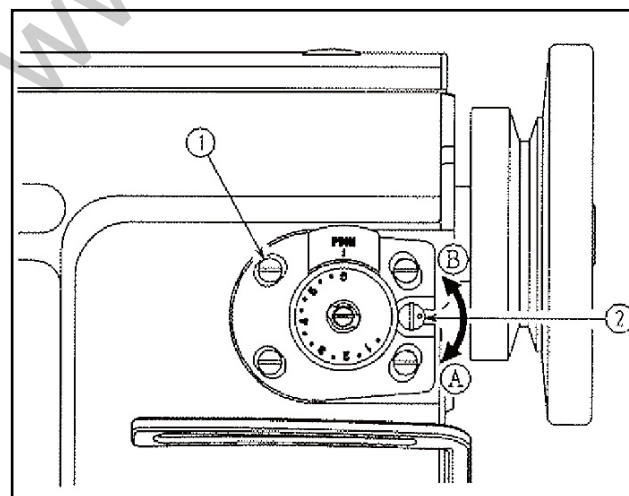
Standard height of the feed dog is 1,4 mm from the surface of throat plate (2). When the feed dog height needs to be adjusted according the sewing conditions or after the feed dog is replaced, follow the procedure described below. Loosen screws (3) in the feed dog. Adjust the position to the needle bar. Securely tighten the screws (3) in the feed dog.



(fig.14)

20. FORWARD REVERSE SEAM RATIO

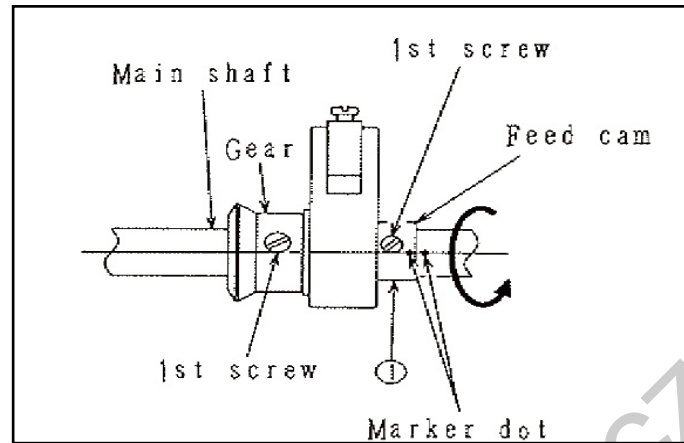
Loosen four screws (1). When increasing the forward stitching length, turn the eccentric pin (2) clockwise (toward A) using a screwdriver. When decreasing the forward stitching length, turn eccentric pin (2) counterclockwise (toward B) using a screwdriver. Then securely tighten the screws (1). (fig.15)



(fig.15)

21. FEED TIMING

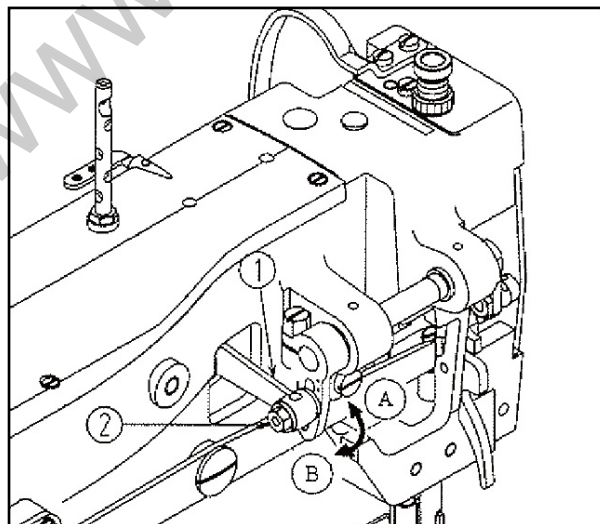
It is the standard position of feed cam as illustrated. Remove a top cover and change the position of feed cam (1). (fig.16)



(fig.16)

22. ADJUSTING THE WALKING FOOT AND PRESSURE FOOT

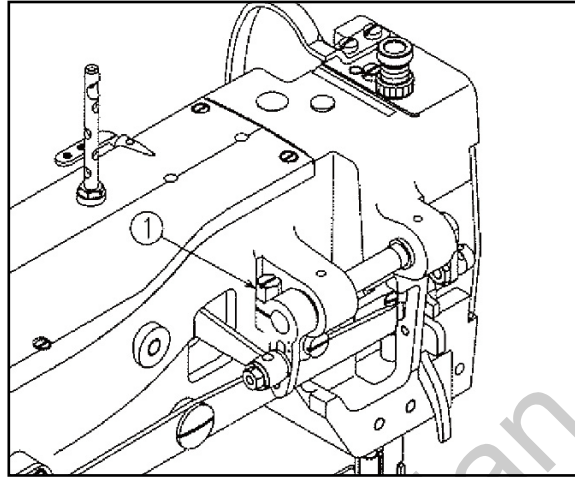
Loosen nut (2). Turn the rod (1) toward (A), walking foot and presser foot up. Toward (B), walking foot and presser foot down. After adjustment, securely tighten nut (2). (fig.17a)



(fig.17a)

Alternate vertical motions of the walking foot and the presser foot

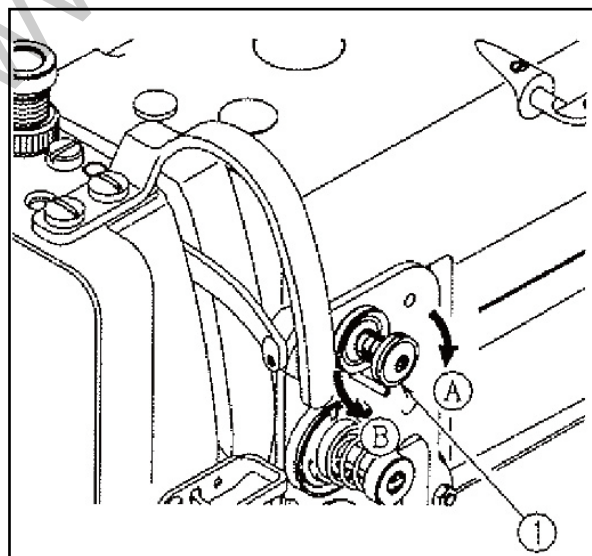
The alternate vertical strokes of walking foot and presser foot are normally equal. Depending on the type of materials, however the vertical stroke of the presser foot may be set smaller than of walking foot. Turn the handwheel, raise the presser foot from throat plate a little. Loosen screw (1). The presser foot falls to the throat plate by power of the spring. Then tighten screw (2) in its position. (fig.17b)



(fig.17b)

23. AUXILIARY THREAD TENSION CONTROLLER

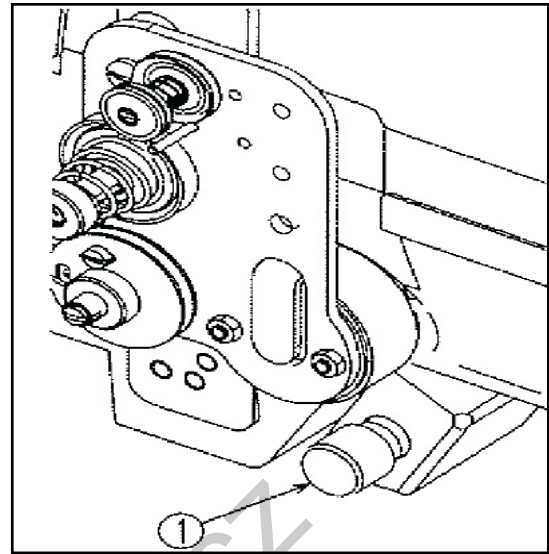
Adjust the auxiliary thread tension using nut (1). Turn the nut in direction (A), tension increases and the needle thread shortens. Turn the nut in direction (B), tension decreases and the needle thread lengthens. (fig.18)



(fig.18)

24. ONE-TOUCH TYPE REVERSE FEED STITCHING MECHANISM

The moment you press switch (1), the sewing machine performs reverse feed stitching. The machine continues reverse feed stitching as long as the switch is held pressed. When you release the switch the machine resumes normal stitching. (fig.19)



(fig.19)

25. ADJUSTMENT NEEDLE BAR STOP POSITION

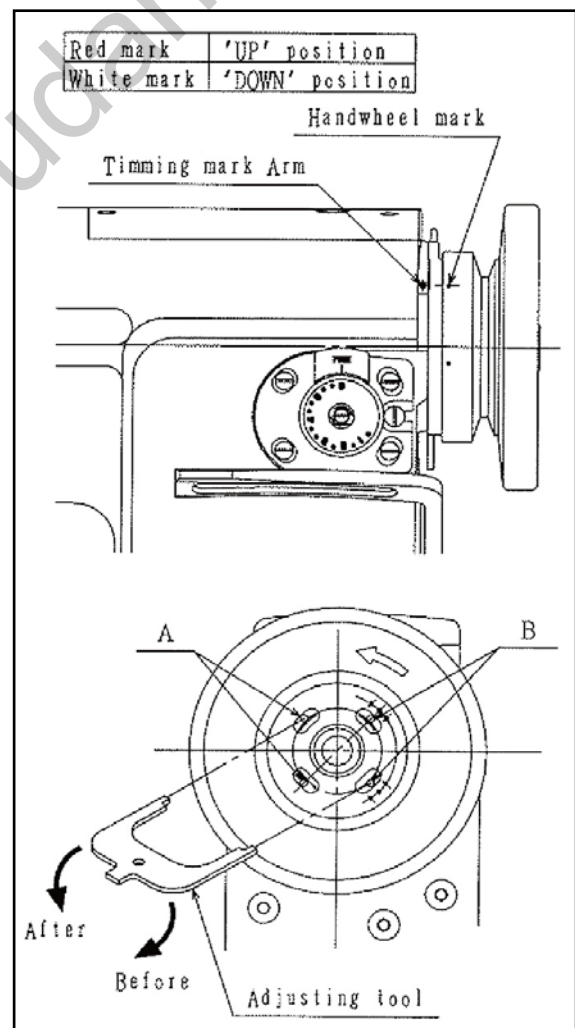
A. Adjust of „UP“ position

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. Disconnect the plug (12 pins) of cable from the machine head. Run the machine and stop at „UP“ position. While holding the handwheel, insert the „adjusting tool“ in the hole „A“, then remove tool.

B. Adjust of „DOWN“ position

When the pedal is „Neutral“ the machine stops at „DOWN“ position. If the marks deviate larger than 5 mm, adjust as follows. Disconnect the plug (12 pins) of cable from the machine head. Run the machine and stop at „DOWN“ position. While holding the handwheel, insert the „adjusting tool“ in the hole „B“, then remove the tool.

Confirm the stop operation, then set the plug (12 pins) coming from the machine head into the receptacle. (fig.20)

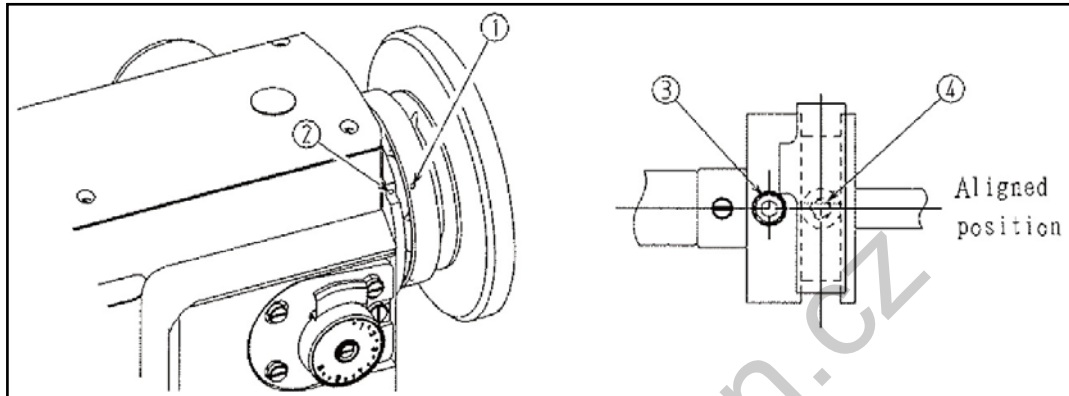


(fig.20)

26. ADJUSTING THE THREAD TRIMMING CAM

Turning the handwheel, align black marker dot (1) in the machine arm with white marker dot (2) in the handwheel.

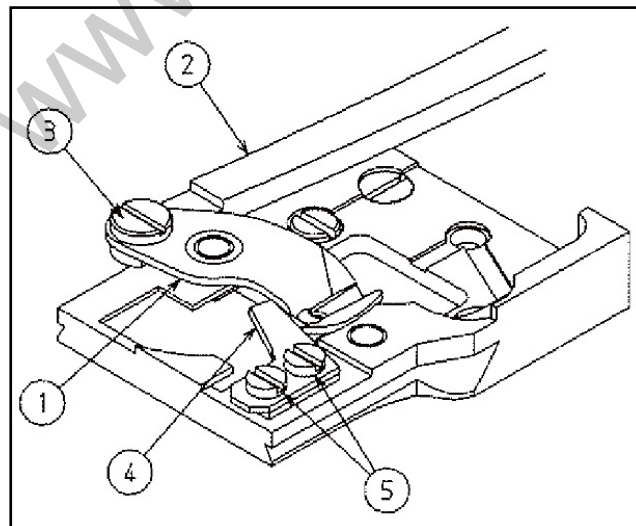
Turn the thread trimming cam until first screw (3) in the thread trimming cam aligns with cam roller shaft (4) in the cam roller arm, and tighten screw at the aligned position.



(fig.21)

27. HOW TO REPLACE THE KNIVES

Remove the throat plate and the feed dog. Rotary knife (1) can be removed by removing connecting screw (3) in driving plate (2), and fixed knife (4) can be done by removing setscrew (5) of the fixed knife. After replacement adjust the knife pressure.



(fig.22)

28. TROUBLE AND CORRECTIVE MEASURES

Trouble	Cause	Coorective measures
Thread breakage (thread frays or wears out)	<ol style="list-style-type: none"> 1. The thread path, needle point, hook point or bobbin case positioning finger has scratches 2. The needle thread tension is too high 3. The needle hits the hook points 4. The needle thread tension od too low 5. The thread take-up spring has an excessively high tension while it has an excessively small stroke 6. The timing between the needle and hook is too early or late. 	<ol style="list-style-type: none"> 1 Remove the scratches on the hook point using a fine sand paper. 2. Properly adjust the needle thread tension 3. See "13. Neelde-to-hook relationship" 4. Properly adjust the needle thread tension 5. Decrease the tension and increase the stroke 6. See "13. Neelde-to-hook relationship"
Stitch skipping	<ol style="list-style-type: none"> 1. The clearance between the needle and the hook point is too large 2. The timing between the needle and hook is too aerly or late 3. the presser foot pressure is too low 4. The clearance between the top edge of the needle eylet and the hook point is not correct 5. The size of the needle is wrong 	<ol style="list-style-type: none"> 1. See "13. Neelde-to-hook relationship" 2. See "13. Neelde-to-hook relationship" 3. Increase the presser foot pressure 4. See "13. Neelde-to-hook relationship" 5. Replace the needle by one which one grade thicker
Loose stitches	<ol style="list-style-type: none"> 1. The thread has not been the passed the through notch of the bobbin case tension spring 2. The thread path is poorly finished 3 The bobbin does not rotate smoothly 4. The bobbin thread tension is too low 5. The bobbin thread has been wound too tight 	<ol style="list-style-type: none"> 1. Properly thread the bobbin case 2. Grind it using a fine sand paper of a buff 3. Replace the bobbin or hook 4. Properly adjust the tension 5. Decrease the bobbin thread winding tension
The thread slips off the needle up on being trimmed	<ol style="list-style-type: none"> 1. The tension of the auxiliary thread tension controller is too high - on controller is too high 2. The thread trimming timing is too early 3. The retuirning force of the thread take-up spring is too high 	<ol style="list-style-type: none"> 1. Descrease the tension 2. See "21. Adjust the thread trimming cam" 3. See "9. Thread take-up spring"
The needle thread cannot be trimmed while the bobbin thread can be trimmed	<ol style="list-style-type: none"> 1. The last stitch has been skipped (the clearance between the needle and the hook is too large) 	<ol style="list-style-type: none"> 1. See "13. Neelde-to-hook relationship"
Both needle and bobbin threads cannot be trimmed	<ol style="list-style-type: none"> 1. The thread trimming timing os wrong 2. The knife has been damaged 3. The knife pressure is inadequate 4. The home position of the movable knife is inaccurate 5. The movable knife fails to work 6. The thread trimming solenoid fails to work 	<ol style="list-style-type: none"> 1. See "21. Adjust the thread trimming cam" 2. Replace the knife 3. Increase the knife pressure 4. See "21. Adjust the thread trimming cam" 5. Check it by actuating it by hand 6. Check the motor solenoid for proper operation
Thread cannot be trimmed sharply	<ol style="list-style-type: none"> 1. The thread trimming timing is wrong 2. The knife pressure is inadequate 3. The knife bledeisblunt 	<ol style="list-style-type: none"> 1. See "21. Adjust the thread trimming cam" 2. Increase the knife pressure 3. Replace the knife

www.garudan.cz

Spare parts list
Katalog náhradních dílů

GARUDAN[®]

GC-3317-448 MH



ANITA B s.r.o.

Průmyslová 2453/7

680 01 Boskovice

Czech Republic

tel: +420 516 454 774

+420 516 453 496

fax: +420 516 452 751

e-mail: info@anita.cz

www.garudan.cz

Všechna práva vyhrazena.

Vlastnictví Anita B s r.o. a chráněno autorským právem. Použití tohoto obsahu bez písemného souhlasu Anita B s r.o. zakázáno.

Copyright © Anita B s r.o. (2016)

All rights reserved

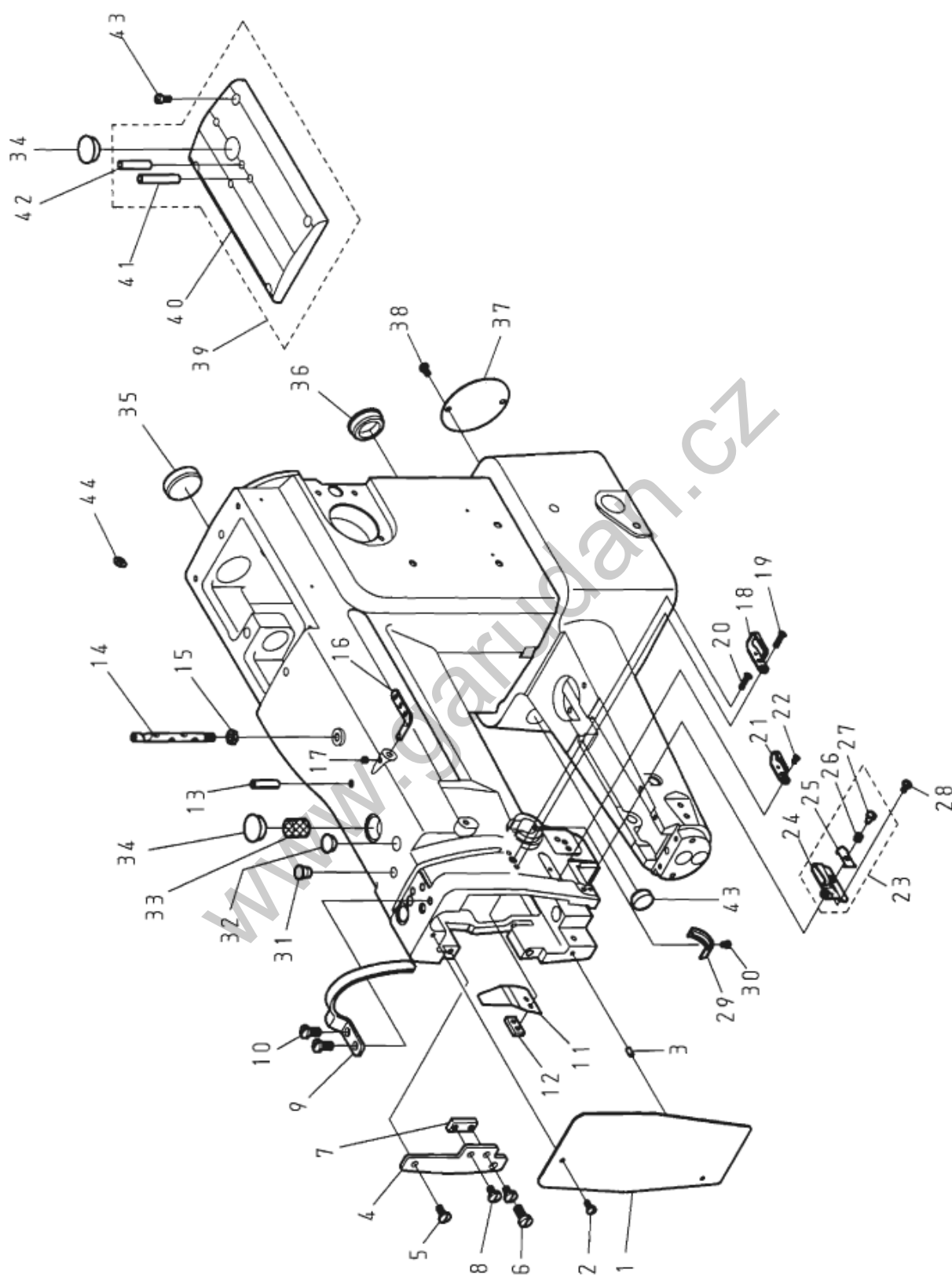
Property of Anita B and protected by copyright. The use of this content without written permission is prohibited.

Copyright © Anita B s r.o. (2016)

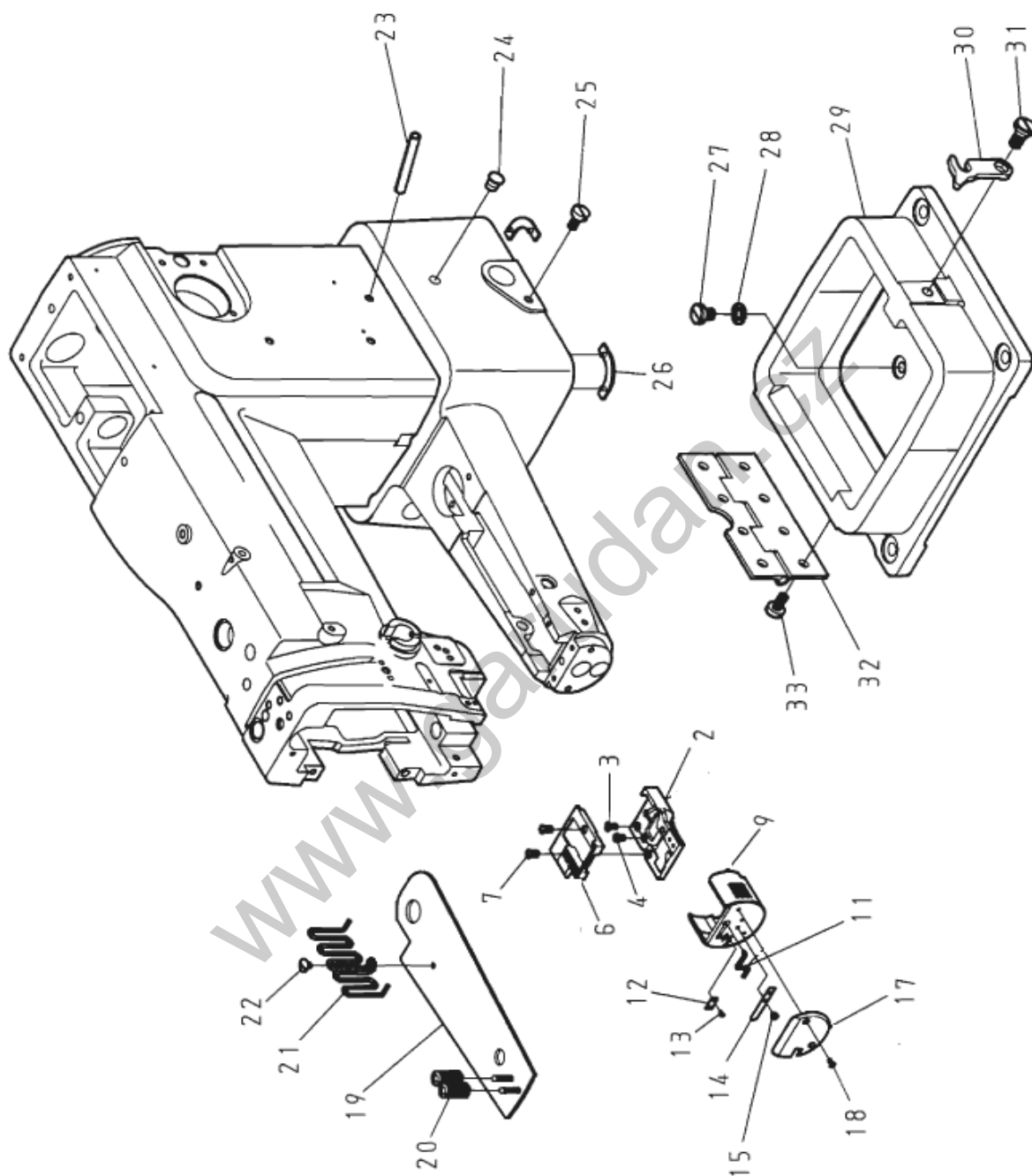
Content/Obsah

A. FRAME & MISCELLANEOUS COVER COMPONENTS (1/2)	4
A. FRAME & MISCELLANEOUS COVER COMPONENTS (2/2)	6
B. MAIN SHAFT & UPRIGHT SHAFT COMPONENTS	8
C. DETECTOR MECHANISM COMPONENTS	10
D. NEEDLE BAR & THREAD TAKE-UP LEVER COMPONENTS	12
E. NEEDLE BAR ROCKING MOTION MECHANISM COMPONENTS	14
F. UPPER FEED MECHANISM COMPONENTS	16
G. PRESSURE BAR & KNEE LIFTER COMPONENTS	18
H. LOWER FEED MECHANISM COMPONENTS (1/2)	20
H. LOWER FEED MECHANISM COMPONENTS (2/2)	22
I. FEED ADJUSTMENT MECHANISM COMPONENTS (1/3)	24
I. FEED ADJUSTMENT MECHANISM COMPONENTS (2/3)	26
I. FEED ADJUSTMENT MECHANISM COMPONENTS (3/3)	28
J. HOOK DRIVE SHAFT COMPONENTS	30
K. THREAD TRIMMER COMPONENTS (1/2)	32
K. THREAD TRIMMER COMPONENTS (2/2)	34
L. UPPER THREAD TENSION REGULATOR MECHANISM COMPONENTS	36
M. AUTOMATIC PRESSER FOOT LIFTING (SPECIAL ORDER PARTS)	38
N. ACCESSORIES	40
O. GAUGE PARTS LIST	42

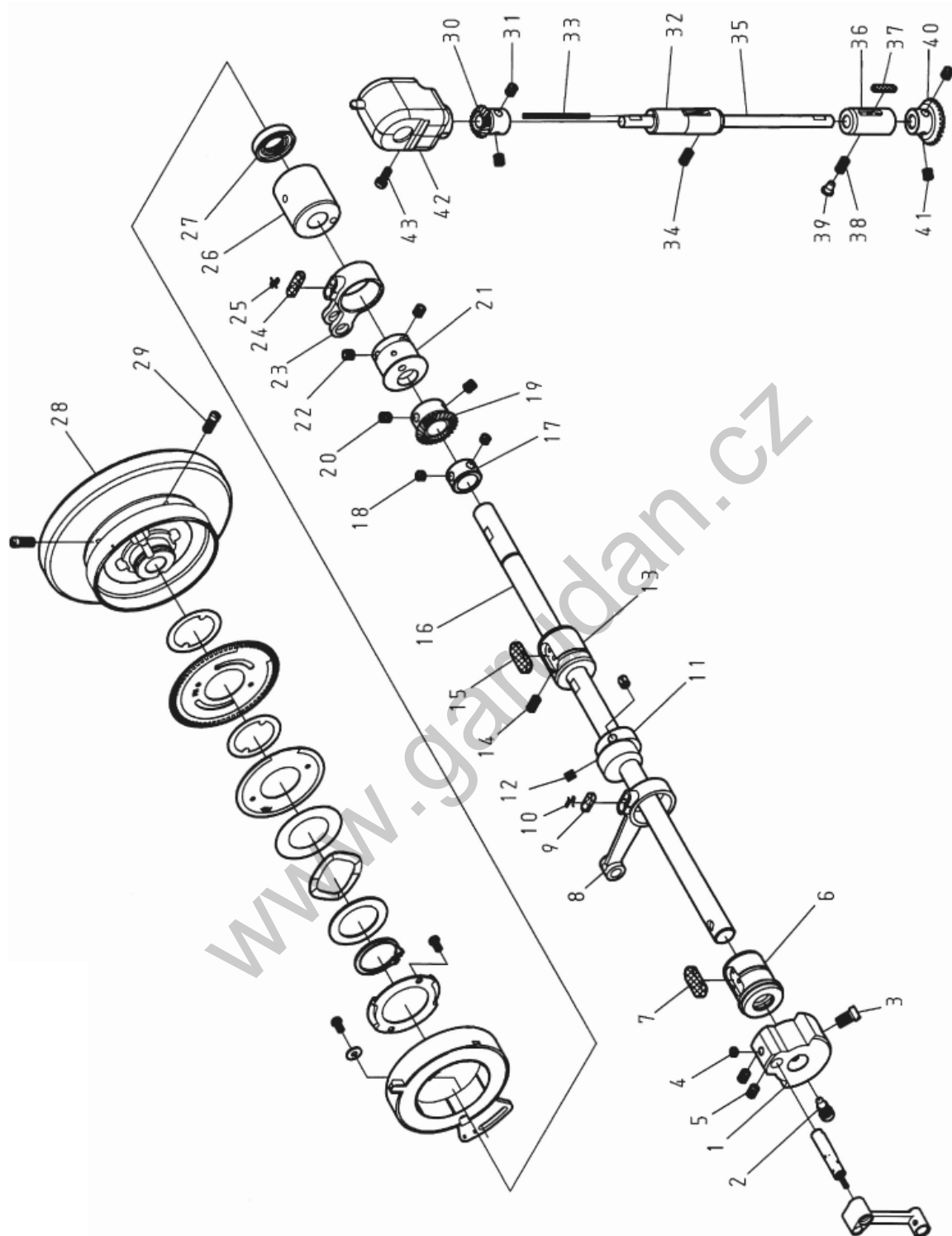
A. FRAME & MISCELLANEOUS COVER COMPONENTS (1/2)



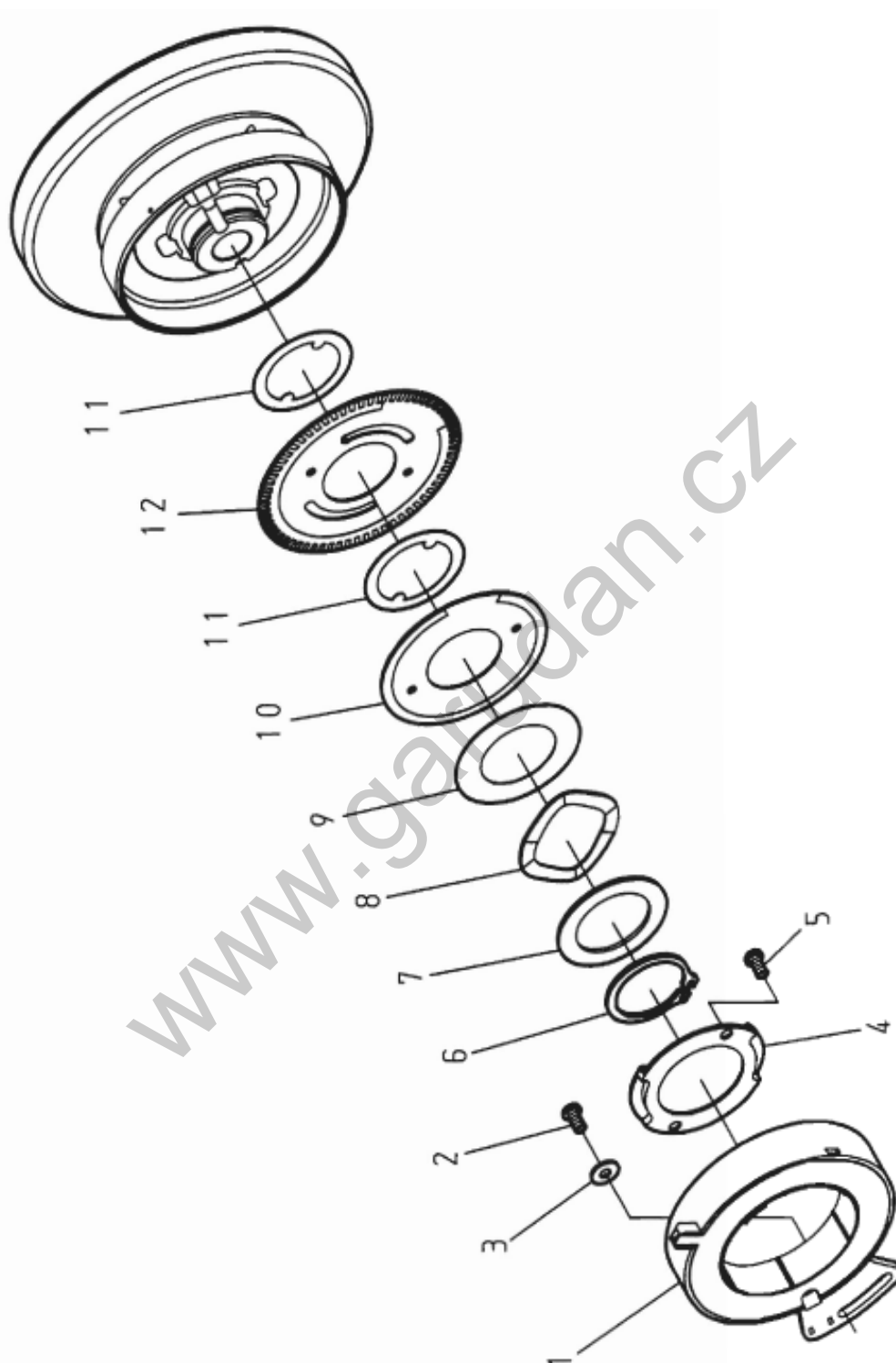
A. FRAME & MISCELLANEOUS COVER COMPONENTS (1/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	8703111000	Face Plate	1	
2	ZSB09017	Screw 9/64-40x8	1	
3	YA035075	Pin	1	
4	8233110900	Vibrating Presser Bar Guide	1	
5	ZSB12006	Screw 3/16-28x10	1	
6	ZSB15009	Screw 15/64-28x13	1	
7	8233143700	Bell Crank Guide	1	
8	ZSB12030	Screw 3/16-32x8	2	
9	F1063-0A	Thread Take-up Lever Cover	1	
10	ZSB15010	Screw 15/64-28x10	2	
11	EJ1014-0A	Oil Guard Plate	1	
12	EJ1017-0A	Spaser	1	
13	YD060024	Oil Pipe	1	
14	B1050-0A	Thread Guide	1	
15	ZML06002	Nut M6x1	1	
16	A1051-0A	Thread Guide	1	
17	ZSA1104	Screw 11/64-40x3,5	1	
18	C1052-0A	Thread Guide (Upper)	1	
19	ZSC09021	Screw 9/64-40x13	1	
20	ZSC09021	Screw 9/64-40*13	1	
21	C1054-0A	Thread Guide (Center)	1	
22	ZSC09009	Screw 9/64-40x6,5	1	
23	8370311605	Thread Guide Asm.	1	
24	EJ1055-0A	Thread Guide	(1)	
25	EJ1056-0A	Guide Plate	(1)	
26	EJ1057-0A	Spring	(1)	
27	ZSG08003	Hinge Screw	(1)	
28	ZSB09011	Screw 9/64-40x6,5	1	
29	J1041-0A	Stopper	1	
30	ZSB09005	Screw 9/64-40x5	1	
31	6120117400	Rubber Plug	1	
32	A1013-1B	Rubber Plug	1	
33	XB114001	Felt	1	
34	A1013-0B	Rubber Plug	2	
35	6120117000	Rubber Plug	1	
36	6120117300	Rubber Plug	1	
37	87031111T0	Side Cover	1	
38	ZSB11041	Screw 11/64-40*7	2	
39	8703110505	Top Cover Asm.	1	
40	8703110500	Top Cover	(1)	
41	YD060036	Oil Pipe	(1)	
42	YD060028	Oil Pipe	(1)	
43	ZSB11017	Screw 11/64-40*12	4	
44	WARN000500	Grand Mark	1	

A. FRAME & MISCELLANEOUS COVER COMPONENTS (2/2)

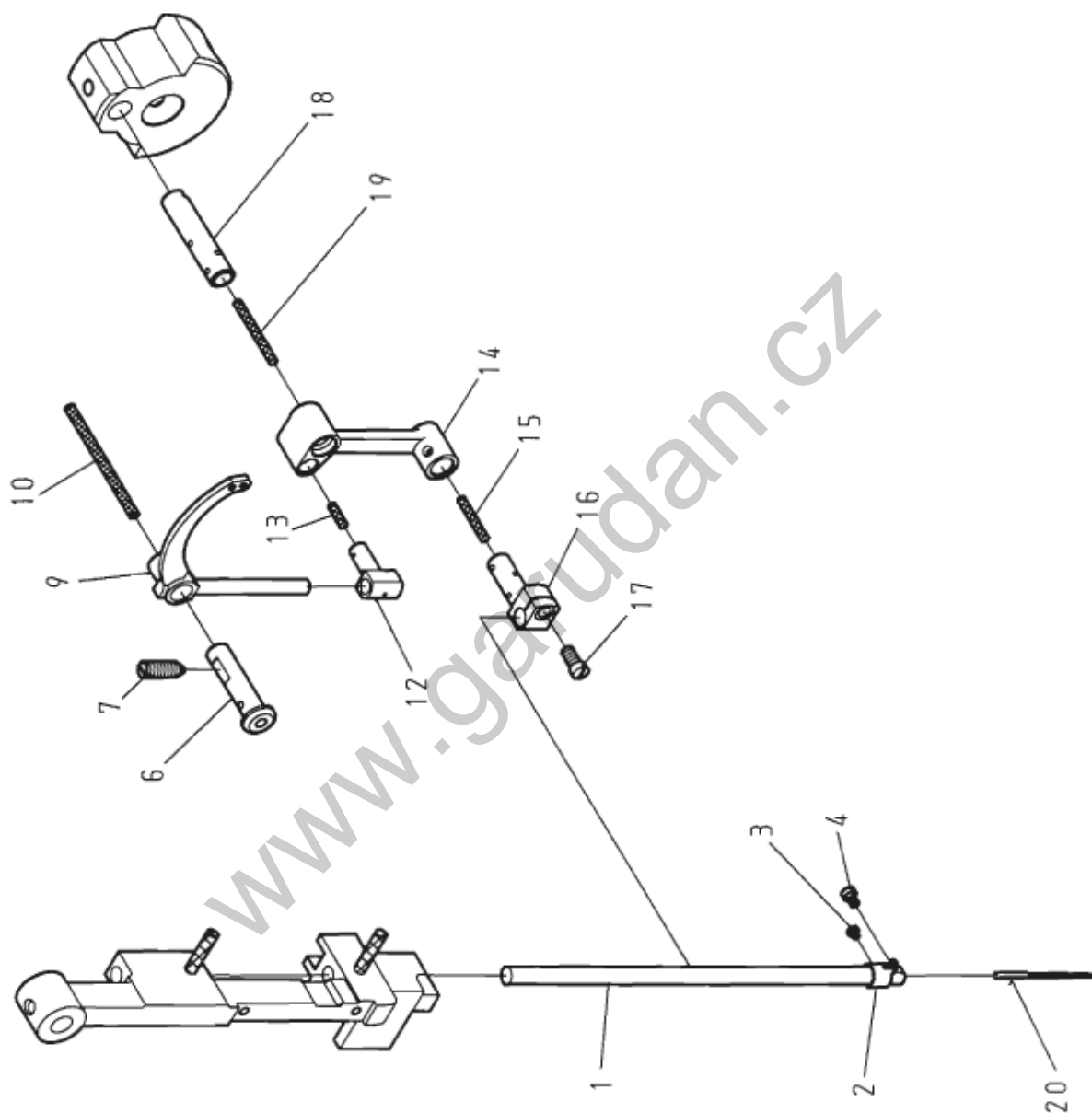
A. FRAME & MISCELLANEOUS COVER COMPONENTS (2/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
2	87131106T0	Bed Cylinder Cap	1	
3	ZSC 09012	Screw 9/64-40*7	2	
4	ZSB09044	Screw 9/64-40*5.3	2	
6	87131113V0	Throat Plate	1	
7	ZSC11017	Screw 11/64-40*8	2	
9	87131836T0	Hook Cover	1	
11	87132460T0	Thread Take-up Picker	1	
12	87032461T0	Picker Holder Plate	1	
13	ZMB01603	Screw M1.6x0.35*3	2	
14	87032462T0	Spring	1	
15	ZSB06004	Screw 3/25-56*2.2	2	
17	87132465T0	Picker Cover	1	
18	ZSC06005	Screw 3/32-56*3.9	2	
19	87131104V4	Cover	1	
20	ZMR04001	Nut M4x0.7	2	
21	L6061-0A	Stripe Guide	1	
22	ZMB04018	Screw M4x0.7*5	1	
23	YD060056	Oil Pipe	1	
24	6120117400	Rubber Plug	1	
25	ZSB15034	Screw 15/64-28*12	1	
26	6220119100	Vibration Preventing Rubber	2	
27	ZSB20014	Screw 5/16-28*9.3	1	
28	EJ4109-0A	Spacer	1	
29	87031103T0	Machine Base	1	
30	6220112700	Latch	1	
31	ZSG20018	Hinge Screw	1	
32	6220112800	Hinge	1	
33	ZSB15034	Screw 15/64-28*12	8	

B. MAIN SHAFT & UPRIGHT SHAFT COMPONENTS

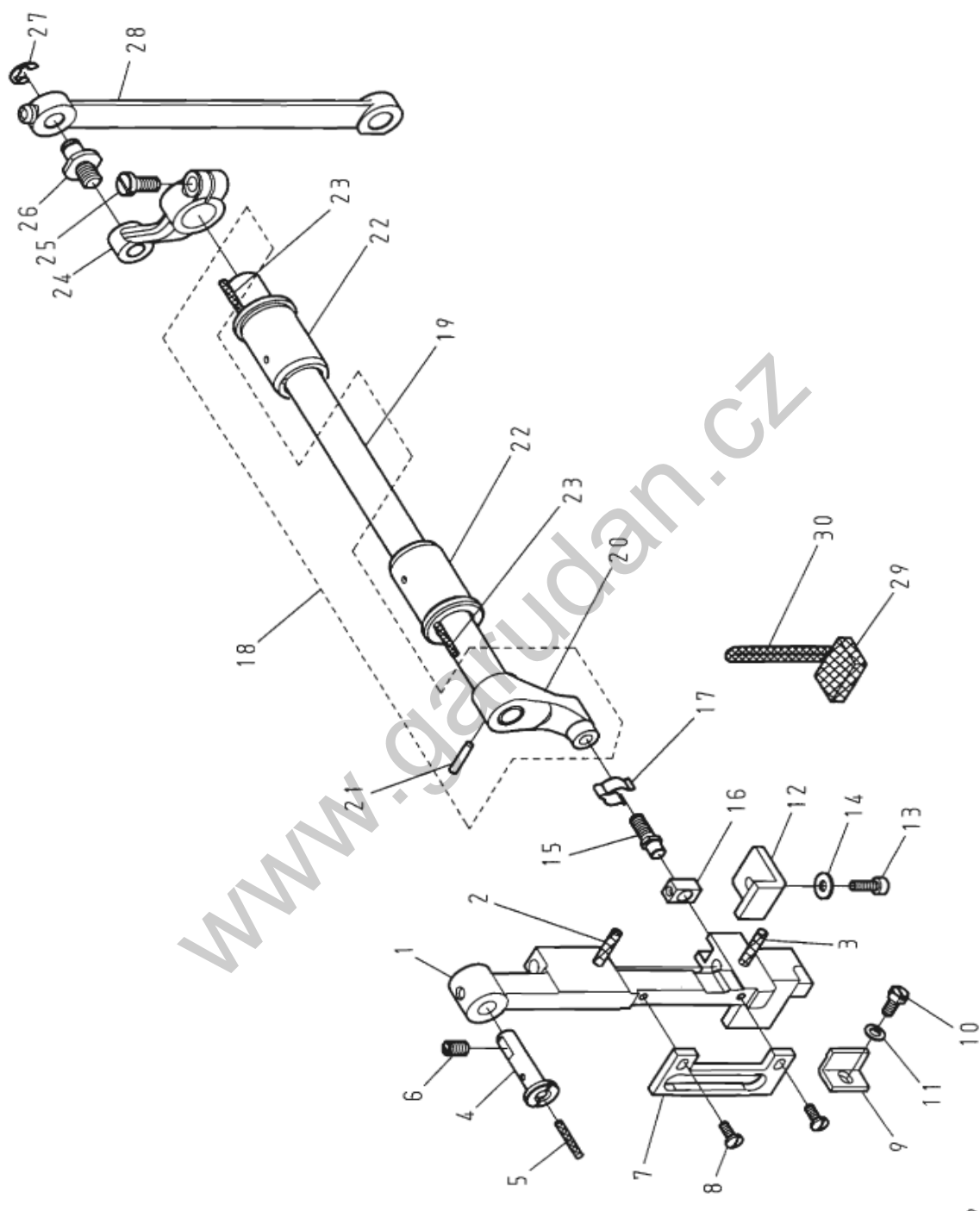
B. MAIN SHAFT & UPRIGHT SHAFT COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	8713120800	Counterweight	1	
2	ZSB18001	Screw 9/32-28*9,5	1	
3	ZSB18002	Screw 9/32-28*13	1	
4	ZSA15019	Screw 15/64-28*3	1	
5	ZSA15017	Screw 15/64-28*8,5	2	
6	8110120200	Main Shaft Bushing, Front	1	
7	XB210001	Felt	1	
8	8233144501	Connecting Rod	1	
9	XB207002	Felt	1	
10	A1130-0A	Spring	1	
11	8233144400	Driving Cam	1	
12	ZSA16025	Screw 1/4-40*6	2	
13	8110120301	Main Shaft Bushing, Center	1	
14	ZSA15020	Screw 15/64-28*11	1	
15	XB210001	Felt	1	
16	8703120100	Main Shaft	1	
17	E4044-0A	Thrust Collar	1	
18	ZSA16010	Screw 1/4-40x4,5	2	
19	A1108-0A	Bevel Gear, Large	1	
20	ZSA16011	Screw 1/4-40*7	2	
21	6220122000	Feed Cam	1	
22	ZSH16001	Screw 1/4-40*6	2	
23	5371167400	Reverse Sewing Crank	1	
24	XB207001	Felt	1	
25	A1130-0A	Spring	1	
26	81131204T0	Main Shaft Bushing, Rear	1	
27	OASCAC0566E	Oil Seal	1	
28	87031223T0	Hand Wheel	1	
29	ZSB15026	Screw 15/64-28*18	2	
30	A1109-0A	Bevel Gear, Small	1	
31	ZSA16011	Screw 1/4-40*7	2	
32	8110132100	Upright Shaft Bushing	1	
33	XA300055	Oil Wick	1	
34	ZSA15020	Screw 15/64-28*11	1	
35	8110132000	Upright Shaft	1	
36	A1113-0A	Upright Shaft Bushing	1	
37	XB205001	Felt	1	
38	ZSA15020	Screw 15/64-28*11	1	
39	6120117400	Rubber Plug	1	
40	A4020-0A	Bevel Gear, Large	1	
41	ZSA16011	Screw 1/4-40*7	2	
42	8703351005	Gear Case Cover	1	
43	ZSB12008	Screw 3/16-24*12	1	

C. DETECTOR MECHANISM COMPONENTS

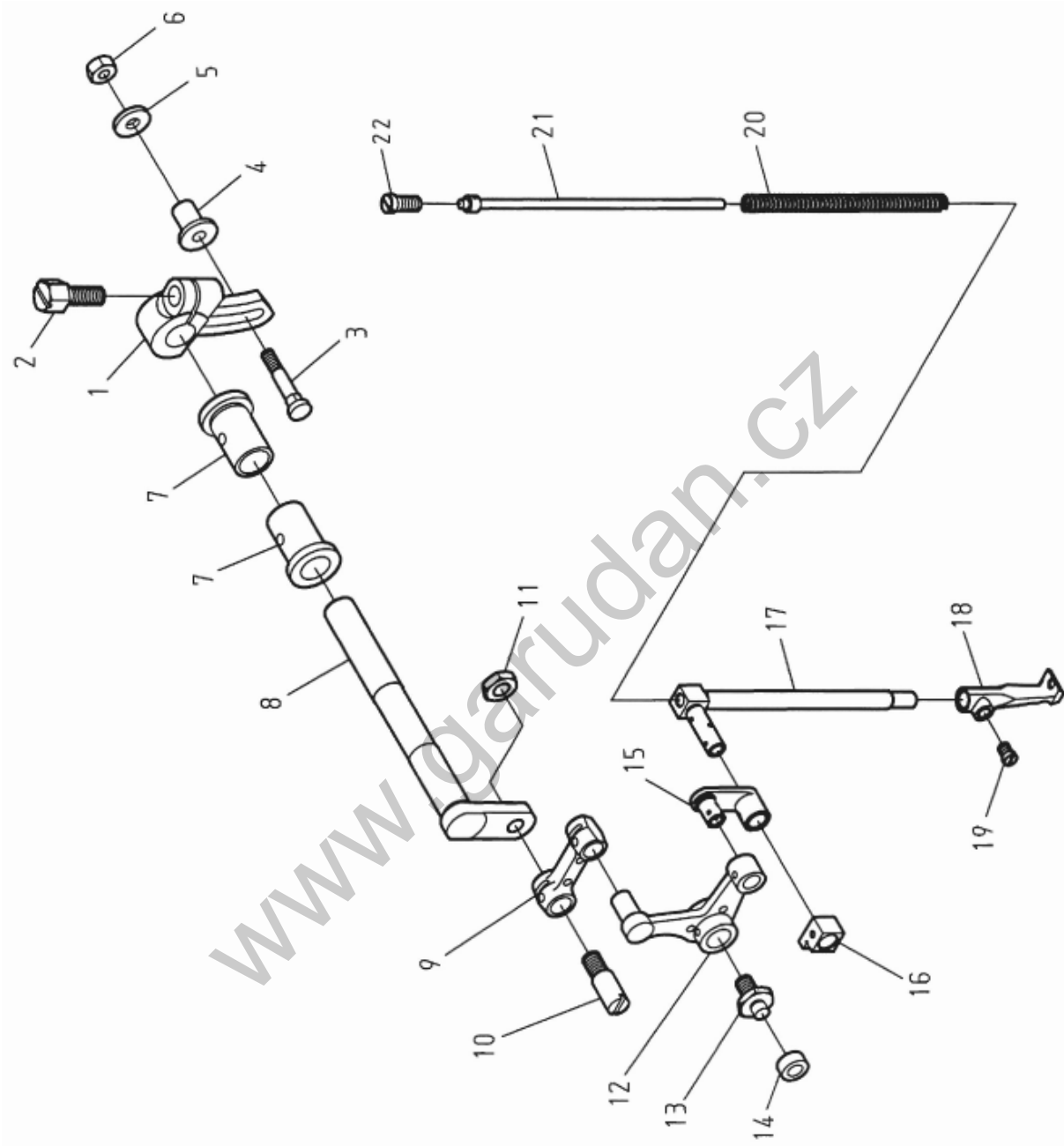
C. DETECTOR MECHANISM COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	MT7600-0A	Detector Bracket	1	
2	ZSB11024	Screw 11/64-40*8	1	
3	WA049005	Washer	1	
4	6120122500	Detector Bracket Supporter	1	
5	ZSB11024	Screw 11/64-40*8	2	
6	RB200300	Retaining Rings-C Type 30	1	
7	WA300002	Washer	1	
8	WG000030	Washer	1	
9	WA300001	Washer	1	
10	MT7610-0C	Speed Command Disk	1	
11	6120122400	Washer	2	
12	MT7611-0C	Speed Command Disk	1	

D. NEEDLE BAR & THREAD TAKE-UP LEVER COMPONENTS

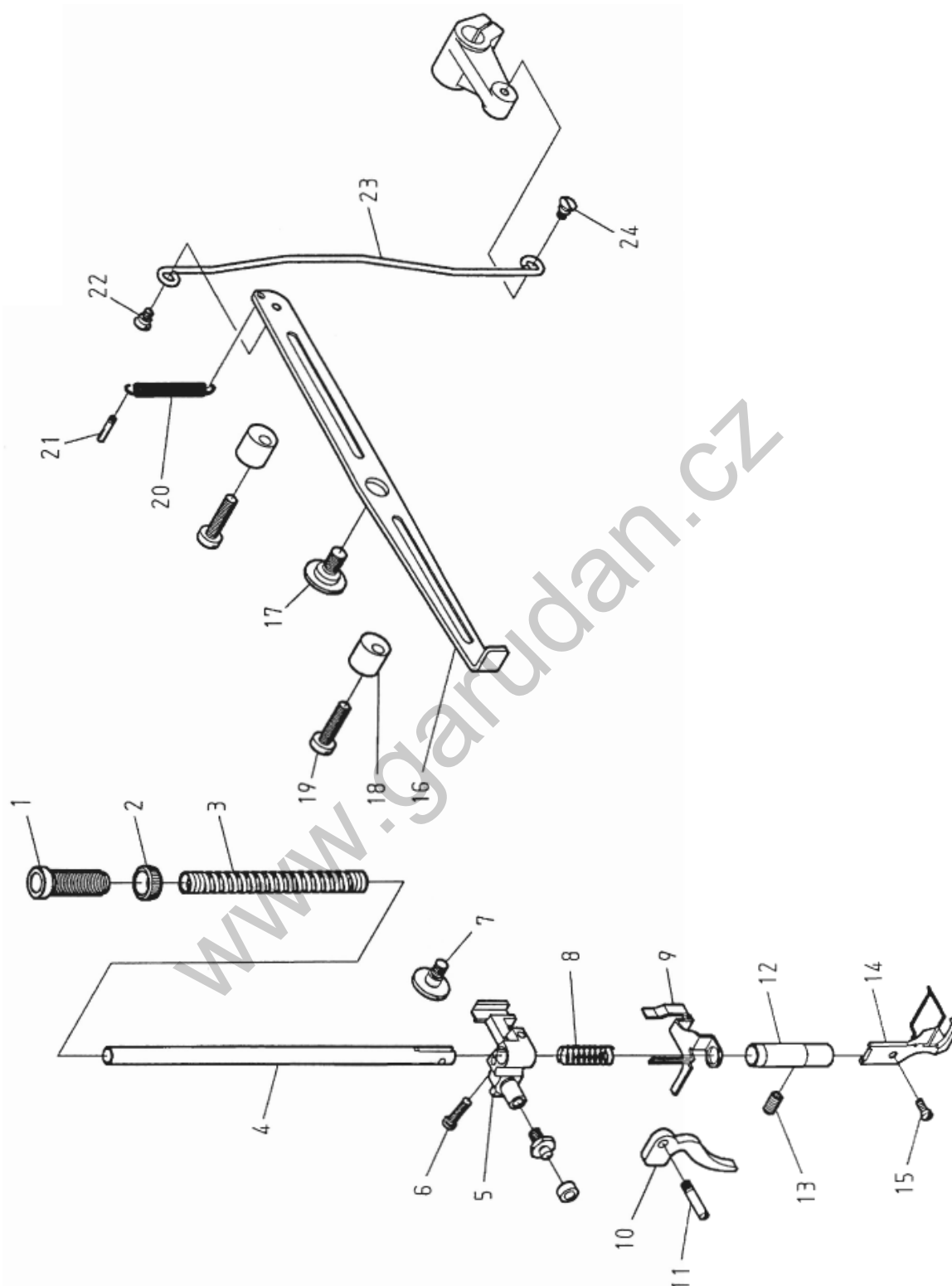
D. NEEDLE BAR & THREAD TAKE-UP LEVER COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	Q1070-0A	Needle Bar	1	
2	8230140700	Needle Bar Thread Guide	1	
3	ZSB06002	Screw 3/32-56*2.5	1	
4	ZSB08002	Screw 1/8-44*4.5	1	
6	B1061-0A	Thread Take-up Lever Pin	1	
7	ZSA15012	Screw 15/64-2/*17	1	
9	8710190100	Thread Take-up Lever	1	
10	XA200250	Oil Wick	1	
12	B1062-0A	Thread Take-up Slide Brock	1	
13	XA300030	Oil Wick	1	
14	B1080-0A	Needle Bar Crank Rod	1	
15	XA300020	Oil Wick	1	
16	B1074-0A	Needle Bar Connection	1	
17	ZSB1103	Screw 11/64-40*9	1	
18	A1107-0A	Needle Bar Crank Shaft	1	
19	XA300065	Oil Wick	1	
20	INDP x 17-21	Needle DP x 17-21	1	

E. NEEDLE BAR ROCKING MOTION MECHANISM COMPONENTS

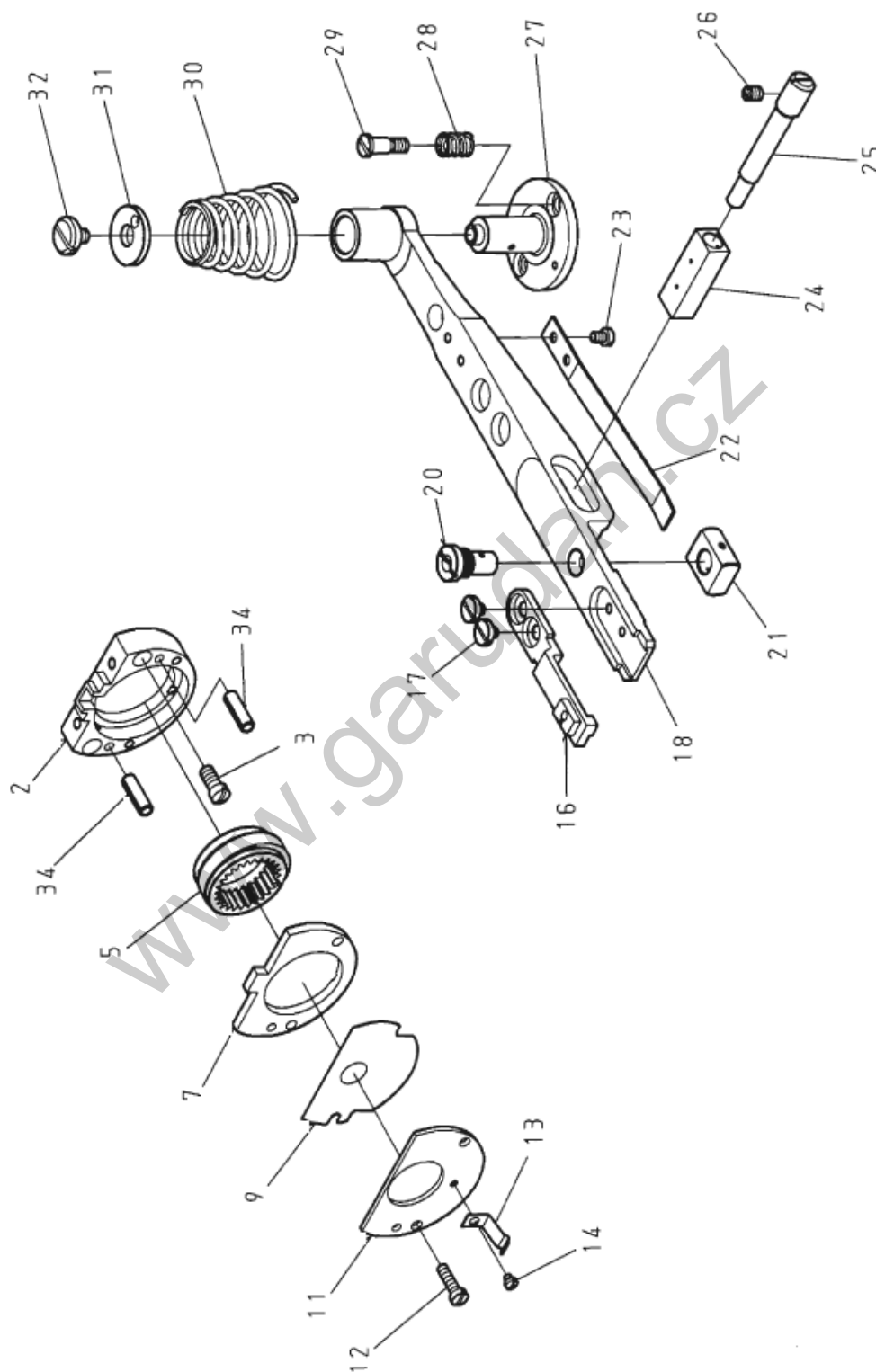
E. NEEDLE BAR ROCKING MOTION MECHANISM COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	8610270100	Needle Bar Guide Bracket	1	
2	XA300080	Oil Wick	1	
3	XA300040	Oil Wick	1	
4	B1091-0A	Needle Bar Guide Bracket Stud	1	
5	XA300020	Oil Wick	1	
6	ZSA15023	Screw 15/64-28*10	1	
7	B1285-0A	Vibrating Presser Bar Guide	1	
8	ZSB09002	Screw 9/64-40*10	2	
9	EJ1092-0A	Needle Bar Guide	1	
10	ZSD11001	Screw 11/64-40*10	1	
11	WA059002	Washer	1	
12	8110270401	Needle Bar Guide	1	
13	ZMJ04005	Screw M4 x 0.7*12	1	
14	WA049005	Washer	1	
15	B1333-0A	Crank Pin	1	
16	B13334-0A	Square Block	1	
17	F1375-0A	Wick Supporter	1	
18	8110270814	Needle Bar Vibrating Shaft Ams.	1	
19	8110270801	Needle Bar Vibrating Shaft	(1)	
20	8610270900	Needle Bar Vibrating Crank (Left)	(1)	
21	YB030020	Taper Pin $\varnothing 3 \times 20 \times 1/50$	(1)	
22	8110272801	Needle Bar Vibrating Shaft Bushing	2	
23	XA300040	Oil Wick	2	
24	8710271000	Needle Bar Vibrating Crank (Right)	1	
25	ZSB15009	Screw 15/64-28*13	1	
26	Q4436-1A	Hinge Screw	1	
27	RE000060	Retaining Rings-E Type 6	1	
28	8610271100	Connecting Rod	1	
29	XB316001	Felt	1	
30	XA300125	Oil Wick	1	

F. UPPER FEED MECHANISM COMPONENTS

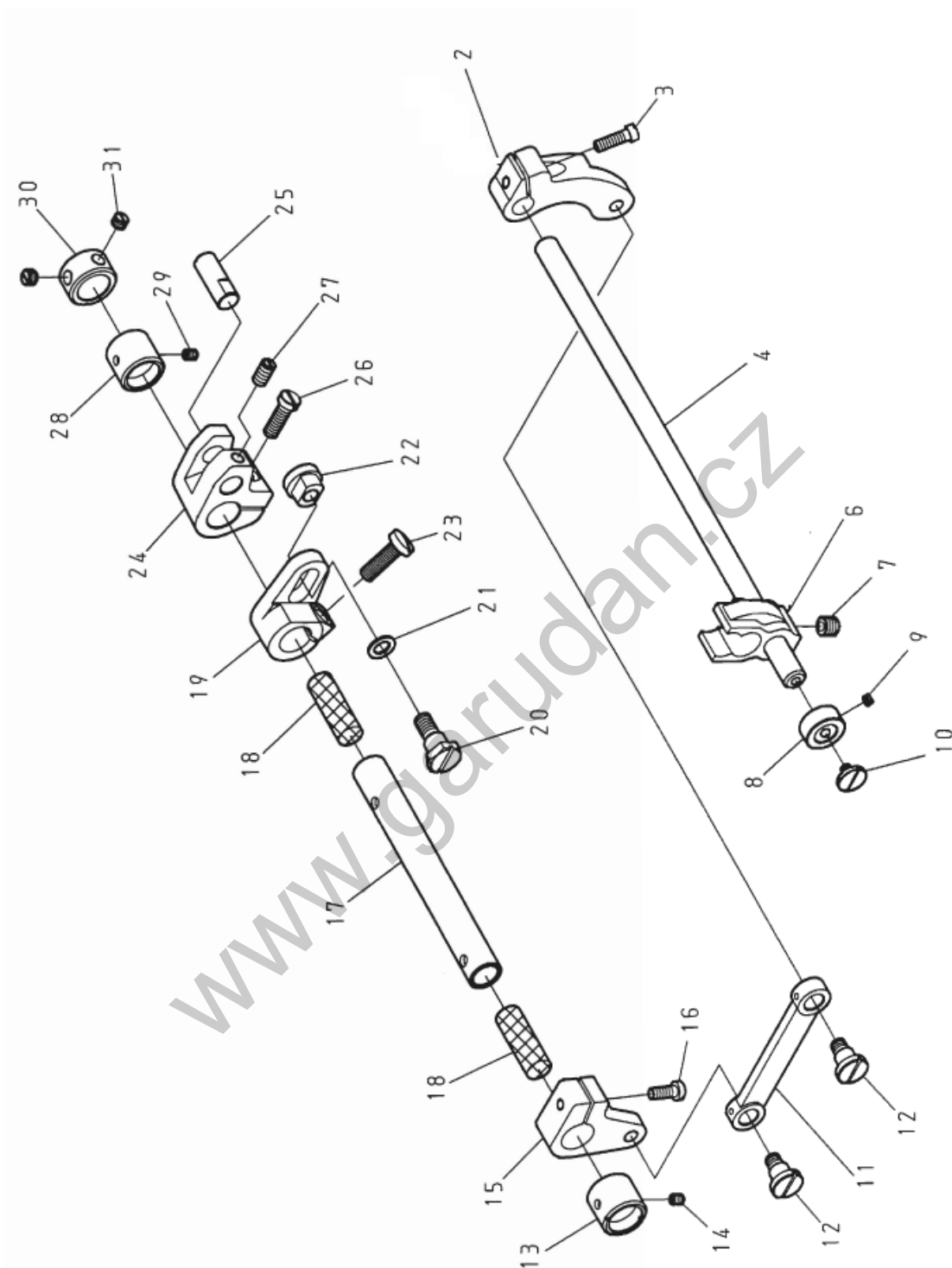
F. UPPER FEED MECHANISM COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	8233144701	Feed Rotating Shaft Crank	1	
2	ZSD16007	Screw 1/4-28*16.5	1	
3	8233147100	Screw	1	
4	8233147200	Bearing Stud	1	
5	WA050002	Washer	1	
6	ZSL11003	Nut 11/64-40	1	
7	B1291-0A	Feed Rotating Shaft Bushing	2	
8	8233144801	Feed Rocker Shaft	1	
9	8233145101	Lifting Bell Crank Link	1	
10	ZSK16002	Hinge Screw	1	
11	ZSL16001	Nut 1/4-32	1	
12	8233143601	Lifting Bell Crank	1	
13	8233152000	Pin	1	
14	8233151900	Roller	1	
15	B1283-0A	Vibrating Presser Bar Link	1	
16	B1284-0A	Slide Brock	1	
17	8703141700	Vibrating Presser Bar	1	
18	87101510V0	Walking Foot	1	
19	ZSB11009	Screw 11/64-40*5	1	
20	8230144200	Spring	1	
21	B1280-0A	Vibrating Presser Spring Guide	1	
22	ZSB20017	Screw 5/16-28*10	1	

G. PRESSURE BAR & KNEE LIFTER COMPONENTS

G. PRESSURE BAR & KNEE LIFTER COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	ZSF32001	Screw	1	
2	ZSN32001	Nut	1	
3	8230150401	Presser Spring	1	
4	8703150100	Presser Bar	1	
5	8233150500	Presser Bar Lifter	1	
6	ZSB11083	Screw 11/64-40*18	1	
7	ZSG16006	Hinge Screw	1	
8	B1274-0A	Spring	1	
9	8233344000	Tension Release Slide	1	
10	EJ1200-0A	Presser Foot Lifter	1	
11	ZSK12026	Hinge Screw	1	
12	8233150200	Bushing	1	
13	ZSA15020	Screw 15/64-28*11	1	
14	87101530V4	Presser Foot Asm.	1	
15	ZSB09003	Screw 9/64-40*9	1	
16	8233343000	Foot Lifter Lifting Lever	1	
17	ZSG20004	Hinge Screw	1	
18	8370341100	Stopper	2	
19	ZSB16011	Screw 1/4-24*25	2	
20	8230340200	Spring	1	
21	EJ4434-2A	Spring Suspension	1	
22	ZSG12059	Screw 3/16-28*3.4	1	
23	8703340400	Knee Operating Connection Bar	1	
24	ZSG12017	Screw 3/16-28*6.3	1	

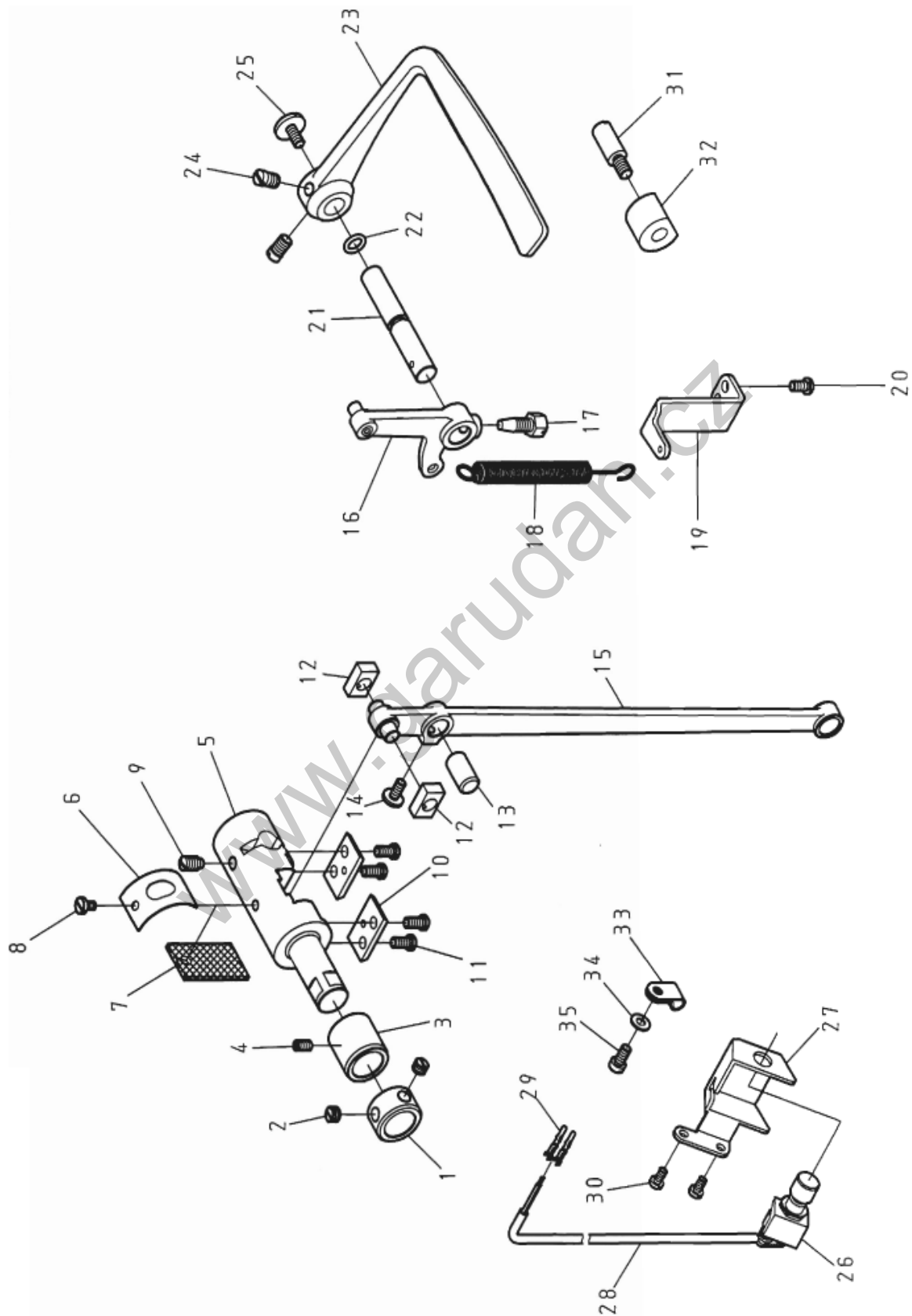
H. LOWER FEED MECHANISM COMPONENTS (1/2)

H. LOWER FEED MECHANISM COMPONENTS (1/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
2	87131713T0	Feed Cam Holder B	1	
3	ZSB11051	Screw 11/64-40*11.5	2	
5	6220170900	Feed Cam	1	
7	87131712T0	Feed Cam Holder A	1	
9	87131714T0	Feed Cam Holder Washer	1	
11	87031715T0	Feed Cam Holder Plate	1	
12	ZSB08016	Screw 1/8-44*12	2	
13	87031837T0	Hook Cover Spring	1	
14	ZSB06041	Screw 3/32-56*1.6	1	
16	87131614W0	Feed dog	1	
17	ZSB08041	Screw 1/8-44*4	2	
18	87131601V0	Feed Bar	1	
20	87131633V0	Feed bar Slide Screw Stud	1	
21	87101697V0	Feed bar Slide Block A	1	
22	6220169800	Spring	1	
23	ZSB08010	Screw 1/8-44*4.6	2	
24	6220169500	Block	1	
25	6220164400	Eccentric Shaft	1	
26	ZSA11012	Screw 11/64-40*4.6	1	
27	87101694V0	Feed bar Stud	1	
28	L6063-2A	Spring	2	
29	ZSG11028	Hinge Screw	2	
30	87101699V0	Spring	1	
31	L6060-0A	Washer	1	
32	ZSB11039	Screw 11/64-40*5.5	1	
34	YD035018	Spring Pin 3,5x18	2	

H. LOWER FEED MECHNISM COMPONENTS (2/2)

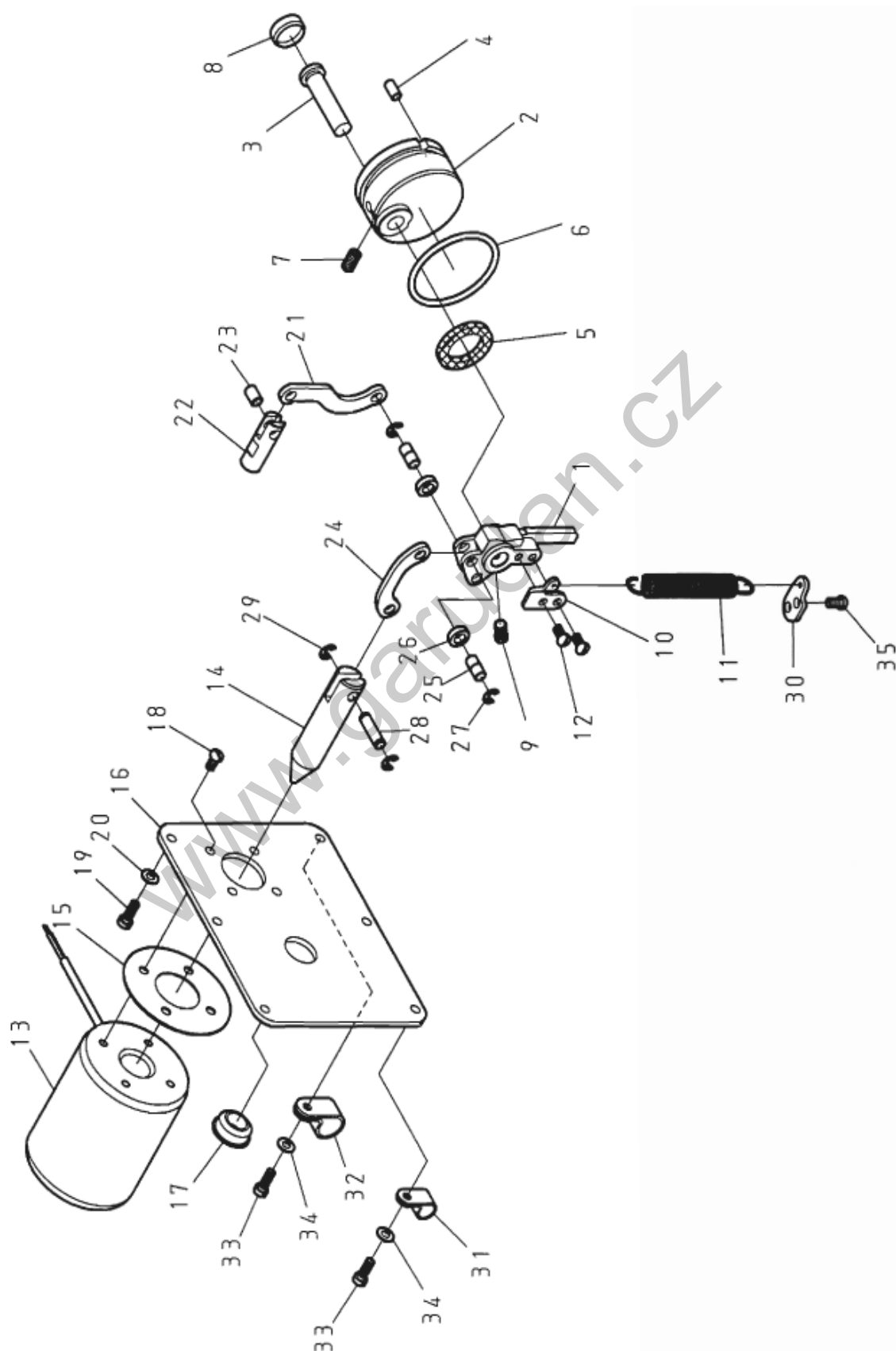
H. LOWER FEED MECHANISM COMPONENTS (2/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
2	87131692T0	Feed Lifting Rock Link	1	
3	ZSB12009	Screw 3/16-28*8	1	
4	8703160400	Feed Rocker Shaft	1	
6	6220160500	Feed Bar Rod	1	
7	ZSA20008	Screw 5/16-24*7	1	
8	8360188200	Thrust Collar	1	
9	ZSA11004	Screw 11/64-40*3,5	2	
10	ZSB11069	Screw 11/64-40*6	1	
11	6220165100	Rod	1	
12	ZSG16016	Hinge Screw	2	
13	6220167900	Bushing	1	
14	ZSA11005	Screw 11/64-40*5,5	1	
15	6220169300	Feed Lifting Rock Link	1	
16	ZSB12006	Screw 3/16-28*10	1	
17	8710167800	Feed Rocker Shaft	1	
18	XB111004	Felt	2	
19	8710160800	Feed Connection Crank	1	
20	ZSG18006	Hinge Screw	1	
21	WA079003	Washer	1	
22	ZSR18002	Nut	1	
23	ZSB16005	Screw 1/4-24*20	1	
24	6120160800	Feed Rocker Shaft Crank	1	
25	8610167600	Horizontal Feed Rod Shaft	1	
26	ZSB15014	Screw 15/64-28*18	1	
27	ZSA15020	Screw 15/64-28*11	1	
28	6220167900	Bushing	1	
29	ZSA11005	Screw 11/64-40*5,5	1	
30	E4044-0A	Thrust Collar	1	
31	ZSA16010	Screw 1/4-40*4,5	2	

I. FEED ADJUSTMENT MECHANISM COMPOONENTS (1/3)

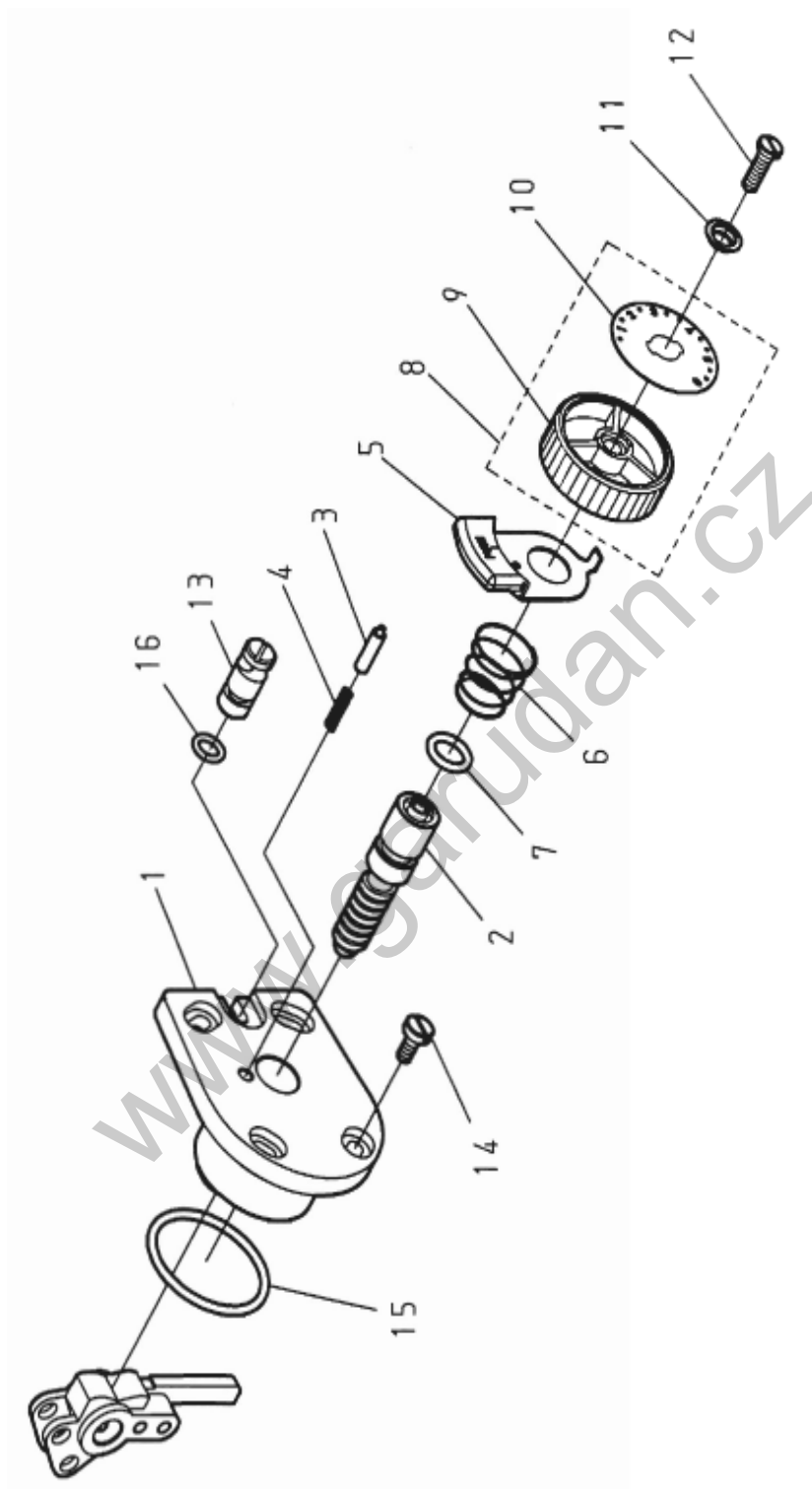


I. FEED ADJUSTMENT MECHANISM COMPONENTS (1/3)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	6120167200	Thrust Collar	1	
2	ZSA16010	Screw 1/4-40*4.5	2	
3	6120160600	Bushing	1	
4	ZSA11007	Screw 11/64-40*7	1	
5	6120167000	Reverse Block	1	
6	5371353500	Plate	1	
7	XB320003	Felt	1	
8	ZSB09011	Screw 9/64-40*6.5	1	
9	ZSA15037	Screw 15/64-28*10.5	1	
10	EJ4153-0A	Guide Plate	2	
11	ZSB11018	Screw 11/64-40*9	4	
12	EJ4152-0A	Square Block	2	
13	6120167500	Pin	1	
14	ZSB11007	Screw 11/64-40*7	1	
15	6120160904	Horizontal Feed Rod Com.	1	
16	A1162-1A	Reverse Feed Crank Asm.	1	
17	ZSD15003	Screw 15/64-28*16,5	1	
18	A1166-0A	Spring	1	
19	87031660T0	Bracket	1	
20	ZSB11024	Screw 11/64-40*8	2	
21	6120161800	Lever Shaft	1	
22	OPP00680	O-rings ø 7	1	
23	A1160-0A	Lever	1	
24	ZSB15019	Screw 15/64-28*9	2	
25	ZSB12011	Screw 3/16-28*10	1	
26	6120280100	Back Touch Switch	1	
27	6120280200	Switch Cover	1	
28	VW023113	2-C Cable	1	
29	VJ032118	Pin Terminal	2	
30	ZSB11032	Screw 11/64-70*7.8	2	
31	6220335300	Belt Cover Stud	1	
32	E1169-2A	Rubber Ring	1	
33	RU20UC05	Cord Holder	2	
34	WA049003	Washer	2	
35	ZSB11011	Screw 11/64-40*9	2	

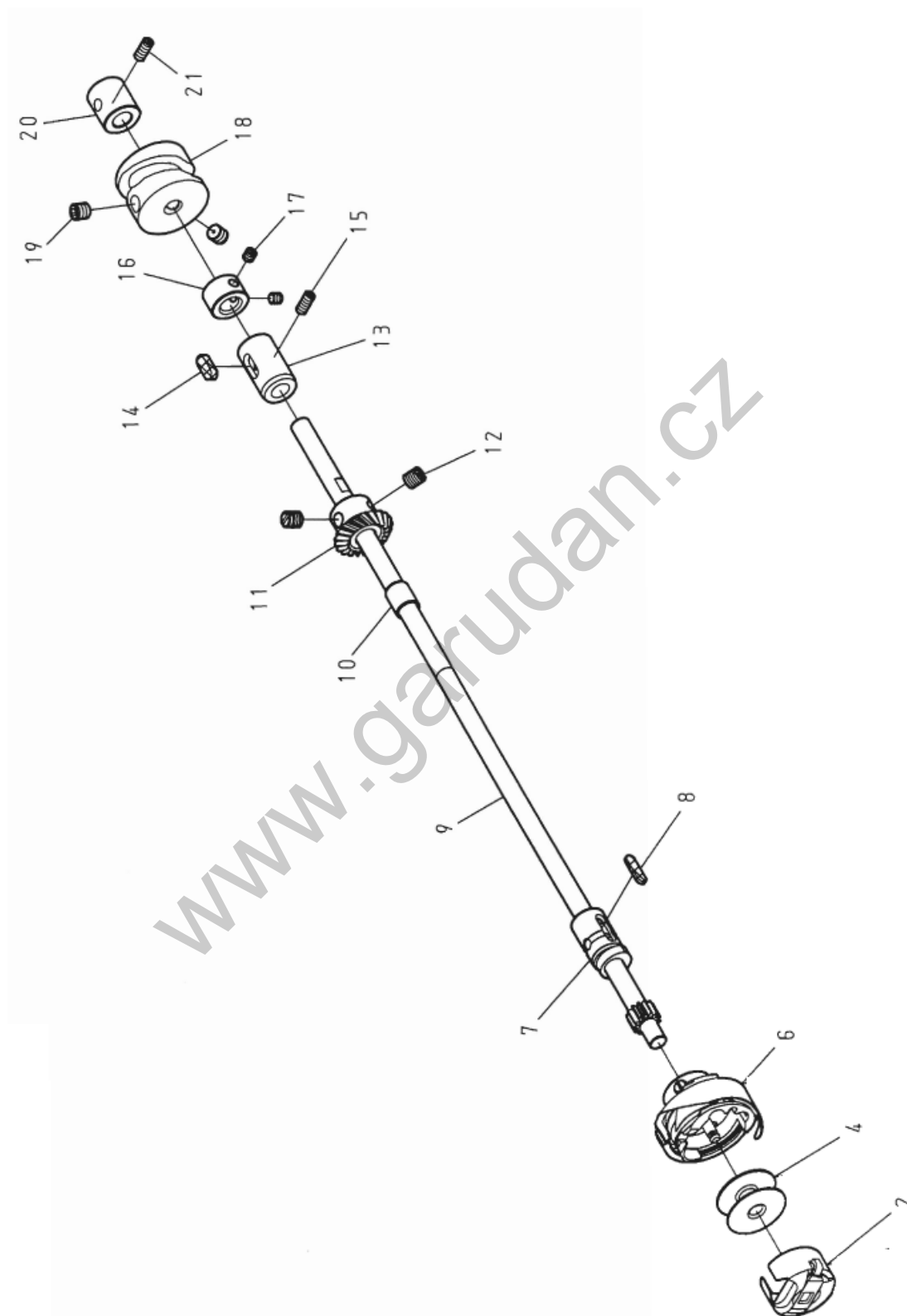
I. FEED ADJUSTMENT MECHANISM COMPONENTS (2/3)



I. FEED ADJUSTMENT MECHANISM COMPONENTS (2/3)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	86101611T0	Feed Regulator	1	
2	8610162200	Bushing	1	
3	6120161500	Feed Regulator Shaft	1	
4	YA050100	Stopper Pin	1	
5	XB120001	Felt	1	
6	OPP04440	O-rings \varnothing 44,4	1	
7	ZSA15020	Screw 15/64-28*11	1	
8	8610118200	Rubber Plug	1	
9	ZSB15006	Screw 15/64-28*8,5	1	
10	6220161300	Bracket	1	
11	6220166200	Spring	1	
12	ZSB11024	Screw 11/64-40*8	2	
13	E1701-2A	Reverse Feed Solenoid	1	
14	E1703-2A	Core	1	
15	E1702-2A	Packing	1	
16	81131680T0	Arm Side Cover	1	
17	A1013-0B	Rubber Plug	1	
18	ZSB11024	Screw 11-64-40*8	4	
19	ZSB11017	Screw 11/64-40*12	6	
20	WA049003	Washer	6	
21	8703168200	Feed Connecting Link	1	
22	6120168300	Set Pin	1	
23	6120168400	Pin	1	
24	81131686T0	Feed Connecting Link	1	
25	6120168500	Pin	2	
26	WA060013	Washer	2	
27	RE000040	E-Shaped Snap Rings (4 mm)	2	
28	E4414-2A	Pin	1	
29	RE000040	E-Shaped Snap Rings (4 mm)	2	
30	6220163600	Spring Holder	1	
31	RU20UC-2	Cord Holder	1	
32	RU20UC-3	Cord Holder	1	
33	ZSB11010	Screw 11/64-40*14	2	
34	WA049003	Washer	2	
35	ZSB11034	Screw 11/64-40*8	2	

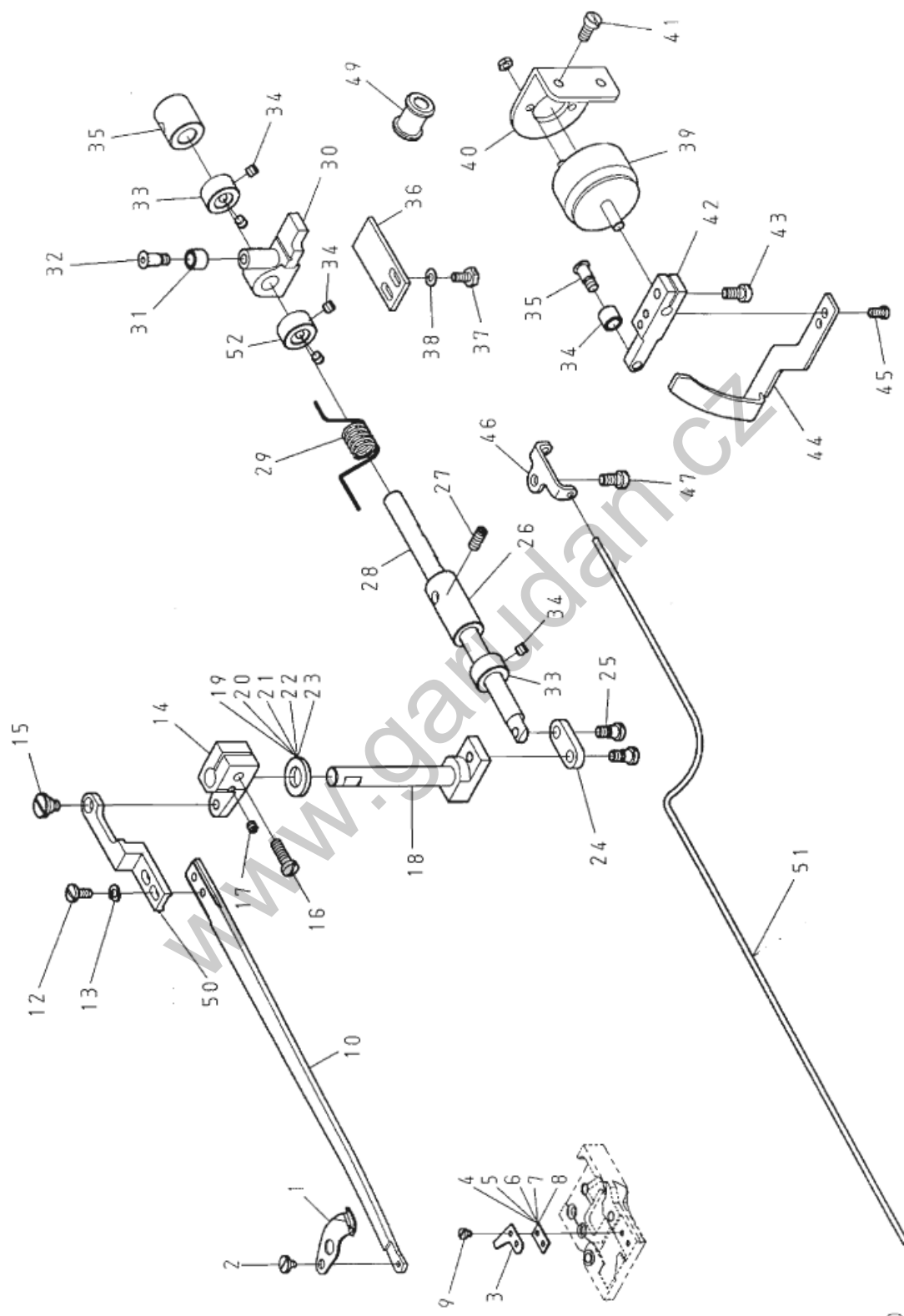
I. FEED ADJUSTMENT MECHANISM COMPONENTS (3/3)

I. FEED ADJUSTMENT MECHANISM COMPONENTS (3/3)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	6120162200	Stitch Dial Base	1	
2	6120164300	Feed Regulating Screw	1	
3	E1171-2A	Pin	1	
4	E1158-0A	Spring	1	
5	E1173-2A	Stopper Pin Releasing Lever	1	
6	E1174-2A	Spring	1	
7	OP00100A	O-rings ø 10	1	
8	87031640T5	Dial Asm.	1	
9	E1172-2A	Dial	(1)	
10	87031641T0	Dial plate	(1)	
11	C1174-0A	Washer	1	
12	ZSB12017	Screw 3/16-28*15	1	
13	6120164400	Electric Pin	1	
14	ZSB11026	Screw 11/64-40*10	4	
15	OPP03550	O-rings ø 35.5	1	
16	OPP00680	O-rings ø 7	1	

J. HOOK DRIVE SHAFT COMPONENTS

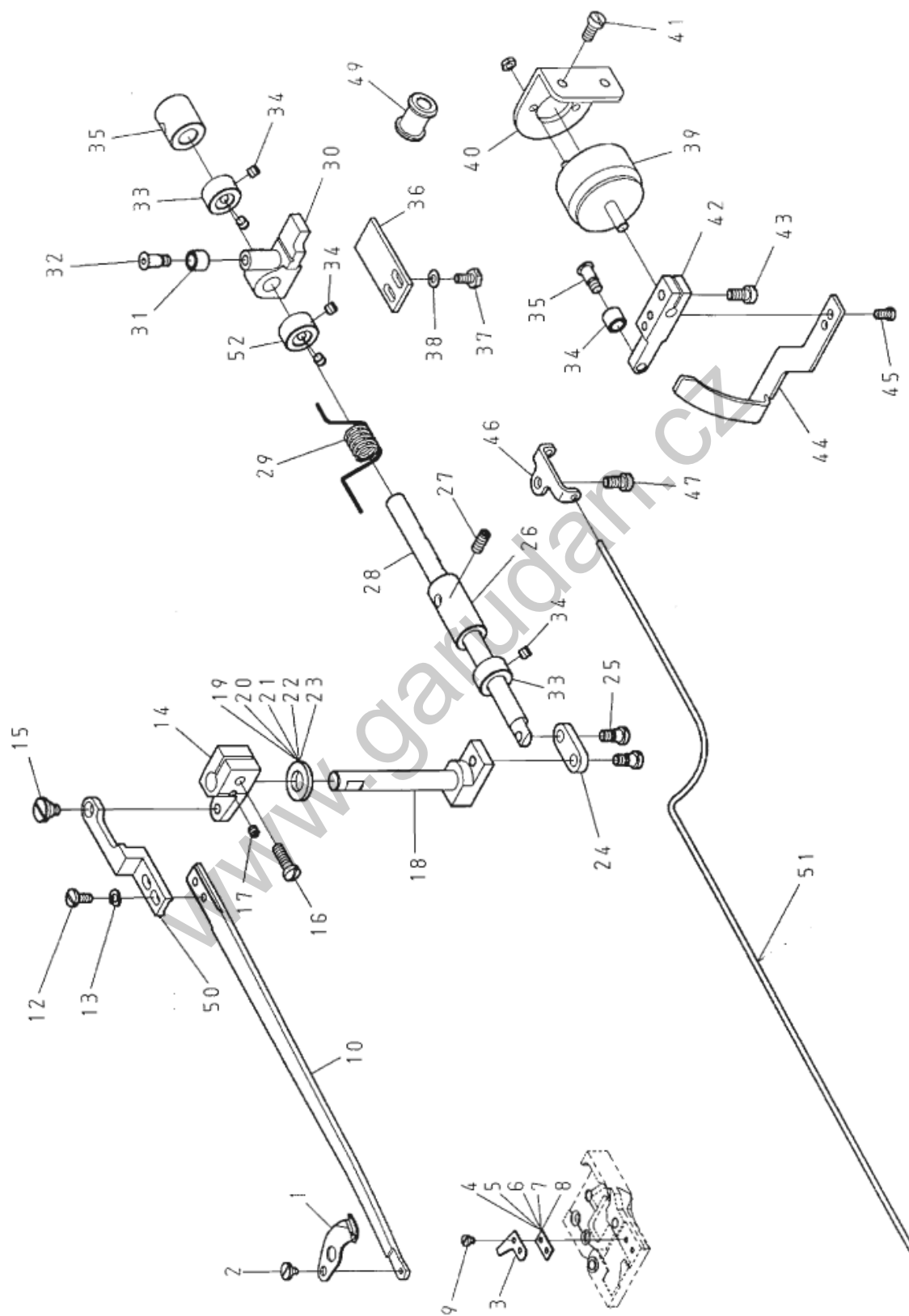
J. HOOK DRIVE SHAFT COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
2	E6105-2A	Bobbin Case	1	
4	87131832T0	Bobbin	1	
6	8610185100	Hook	1	
7	6210180300	Bushing, Front	1	
8	XB204001	Felt	1	
9	87031801T0	Hook Driving Shaft	1	
10	6220180400	Bushing, Center	1	
11	A4021-0A	Screw Gear, Back	1	
12	ZSA16011	Screw 1/4-40*7	2	
13	8703180500	Bushing, Rear	1	
14	XB205002	Felt	1	
15	ZSA11016	Screw 11/64-40*11	1	
16	E4014-0A	Thrust Collar	1	
17	ZSA11011	Screw 11/64-40*4.5	2	
18	87032405T0	Thread Trimmer Cam	1	
19	ZSH16001	Screw 1/4-40*6	2	
20	87032412T0	Bushing	1	
21	ZSA11016	Screw 11/64-40*11	1	

K. THREAD TRIMMER COMPONENTS (1/2)



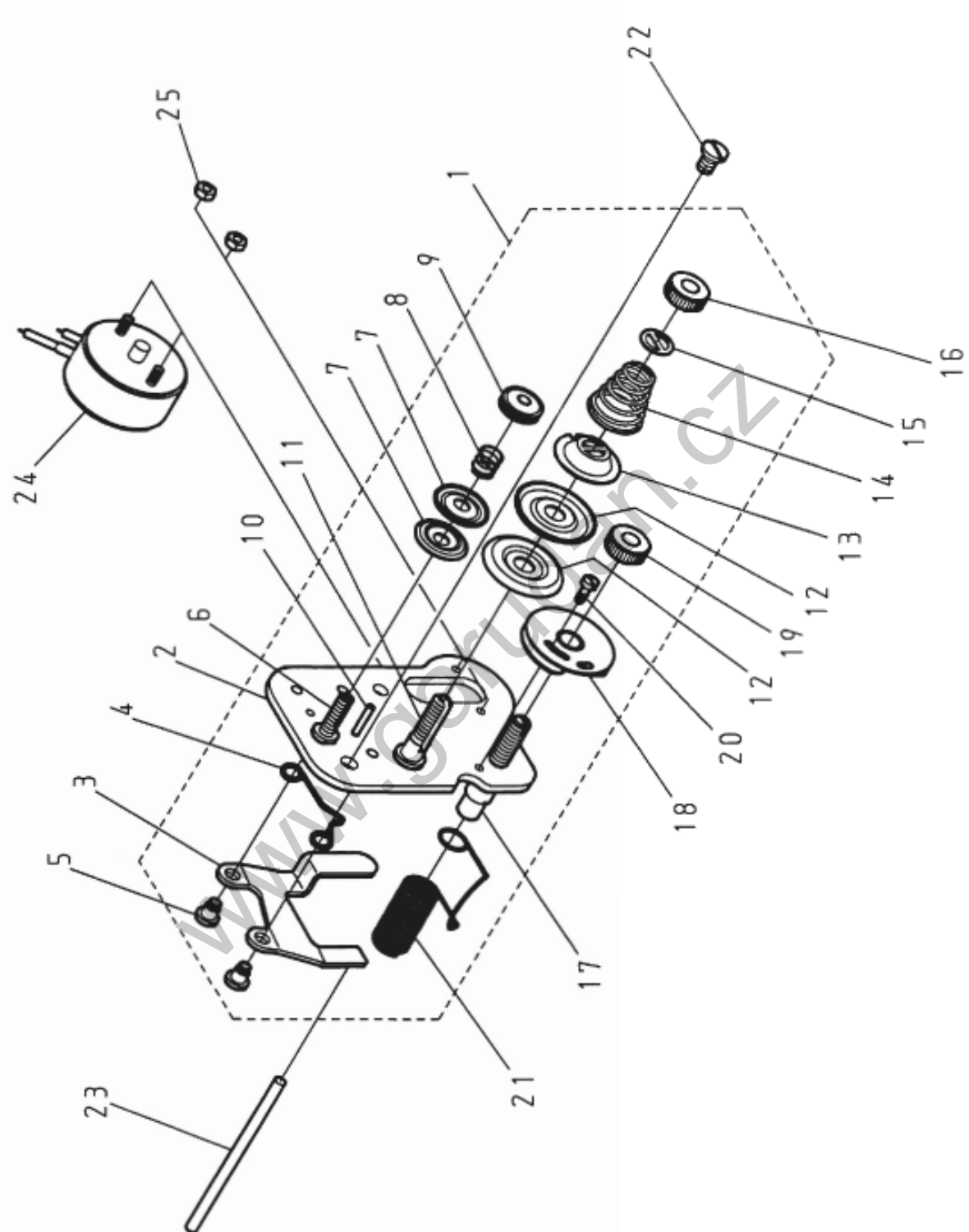
K. THREAD TRIMMER COMPONENTS (1/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	87032430T0	Movable Knife	1	
2	ZSG06015	Hinge Screw	1	
3	87032402T0	Fixed Knife	1	
4	87032432T1	Adjusting Plate (t=0.90)	(1)	
5	87032432T2	Adjusting Plate (t=0.85)	(1)	
6	87032432T3	Adjusting Plate (t=0.80)	1	
7	87032432T4	Adjusting Plate (t=0.75)	(1)	
8	87032432T5	Adjusting Plate (t=0.70)	(1)	
9	ZSB06019	Screw 3/32-56*3.2	2	
10	87032433T1	Knife Driving Plate	1	
12	ZSB09047	Screw 9/64-40*7	2	
13	WB041002	Spring Lock Washers	2	
14	87032420T0	Knife Driving Crank	1	
15	ZSG11023	Hinge Screw	1	
16	ZSB11010	Screw 11/64-40*14	1	
17	ZSA09007	Screw 9/64-40*4	1	
18	87032413T1	Knife Driving Crank	1	
19	WH208027	Washer (t=2.7)	(1)	
20	WH208026	Washer (t=2.6)	(1)	
21	WH208025	Washer (t=2.5)	1	
22	WH208024	Washer (t=2.4)	(1)	
23	WH208011	Washer (t=2.3)	(1)	
24	87032423T0	Link	1	
25	ZSG11138	Hinge Screw	2	
26	87032411T0	Bushing	1	
27	ZSA11016	Screw 11/64-40*10	1	
28	87032410T0	Knife Driving Shaft	1	
29	87032422T0	Spring	1	
30	87032418T0	Knife Driving Crank	1	
31	87032417T0	Roller	2	
32	ZSG11137	Hinge Screw	2	
33	TC07908200	Thrust Collar	2	
34	ZMH04001	Screw M4x0.7*4	6	
35	87032412T0	Bushing	1	
36	87032421T0	Plate	1	
37	ZSD09007	Screw 9/64-40*5.5	2	

K. THREAD TRIMMER COMPONENTS (2/2)

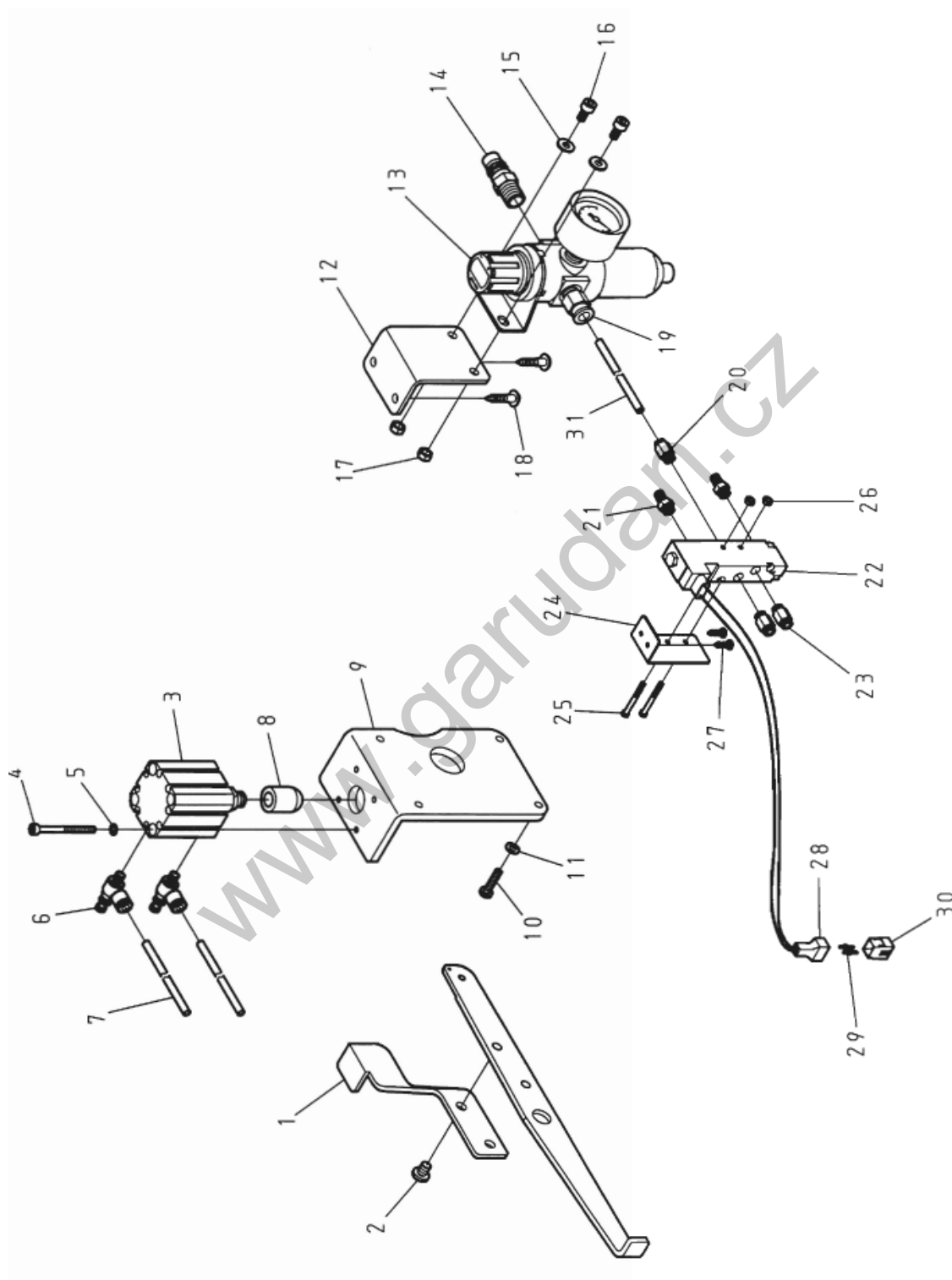


K. THREAD TRIMMER COMPONENTS (2/2)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
38	WA030002	Washer	2	
39	87032406T0	Thread Cutting Solenoid Asm.	1	
40	87032409T0	Solenoid Instaling Base	1	
41	ZSB11011	Screw 11/64-40*9	2	
42	87032408T0	Solenoid Arm	1	
43	ZSB11011	Screw 11/64-40*9	2	
44	87032464T0	Driving lever	1	
45	ZSB09021	Screw 9/64-40*7.7	2	
46	87032466T0	Holder	1	
47	ZSB11011	Screw 11/64-40*9	1	
49	E1077-2A	Strain Relief Bushing	1	
50	87132434T1	Knife Driving Plate	1	
51	87132463T0	Driving Bar	1	
52	TC07906200	Thrust Collar	1	

L. UPPER THREAD TENSION REGULATOR MECHANISM COMPONENTS

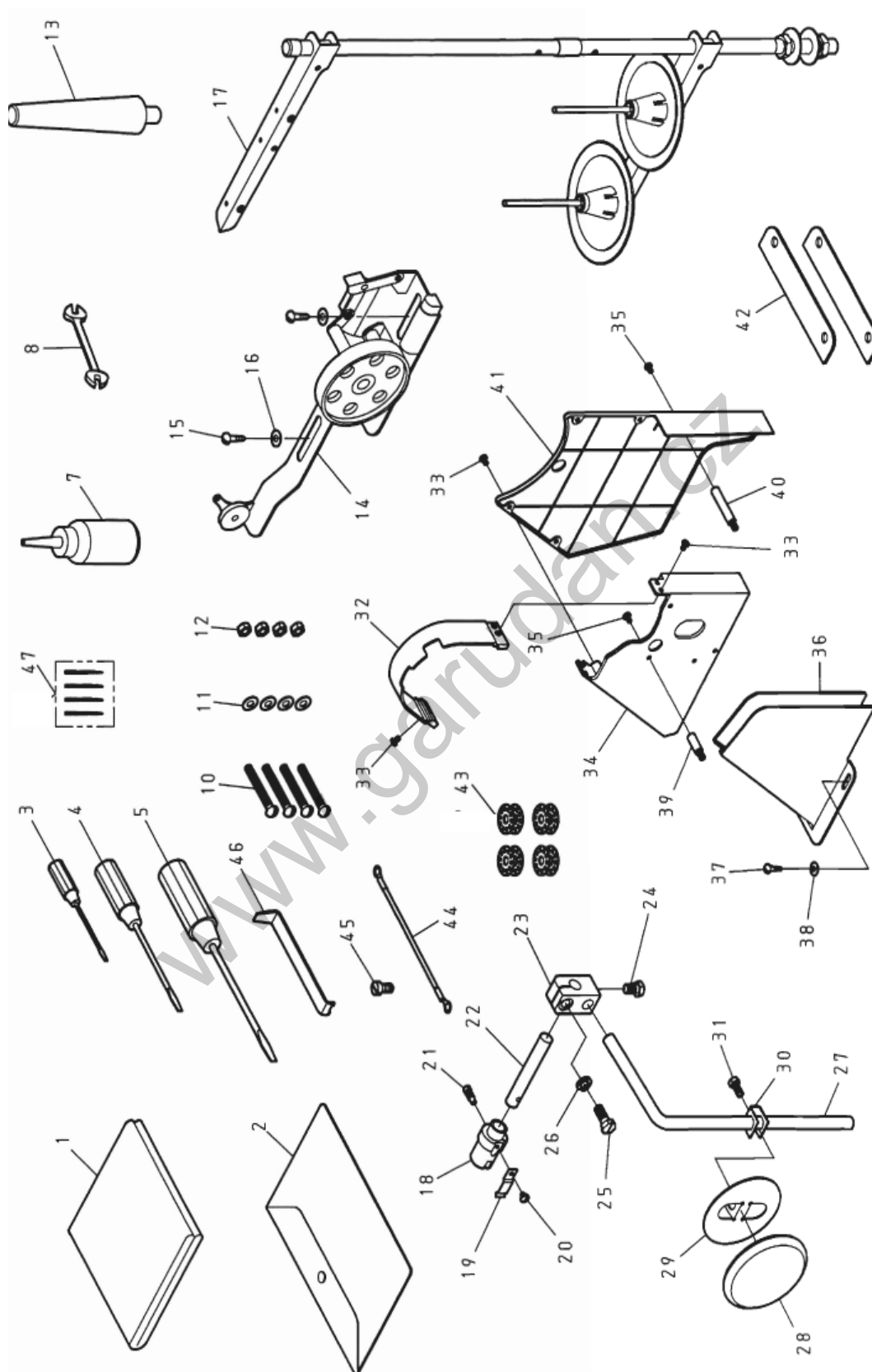


L. UPPER THREAD TENSION REGULATOR MECHANISM COMPONENTS				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	8610310505	Thread Tension Regulator Asm.	1	
2	AB1038-0A	Mounting Plate Asm.	(1)	
3	86103126T0	Tension Releasing Plate	(1)	
4	J1036-0A	Tension Releasing Spring	(1)	
5	ZMG03501	Hinge Screw	(2)	
6	AB1026-0A	Shread Tension Stud	(1)	
7	NA1025-1A	Tension Regulator Disk	(2)	
8	AB1032-0A	Spring	(1)	
9	ZSN11001	Nut 11/64-40	(1)	
10	ZSG09005	Pin	(1)	
11	J1026-1A	Shread Tension Stud	(1)	
12	J1035-0A	Tension Regulator Disk	(2)	
13	J1034-0A	Tension Regulator Presser Disk	(1)	
14	J1021-0A	Tension Spring	(1)	
15	J1042-0A	Washer	(1)	
16	ZMN06001	Nut M6x1	(1)	
17	J1026-0A	Tension Stud	(1)	
18	J1024-0A	Tension Controller Disk Set	(1)	
19	ZMN06001	Nut M6x1	(1)	
20	ZMB02501	Screw M2.5x0.45*7	(1)	
21	J1027-0A	Thread Take-up Spring	(1)	
22	ZMB05003	Screw M5x0.8*7	1	
23	8233312200	Tension Releasing Pin	1	
24	AB8100-1A	Tension Release Solenoid	1	
25	ZML03002	Nut M3x0.5	2	

M. AUTOMATIC PRESSER FOOT LIFTING (SPECIAL ORDER PARTS)

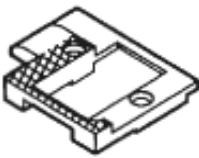
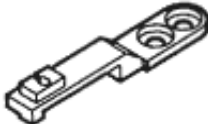
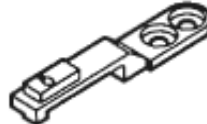




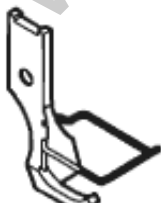
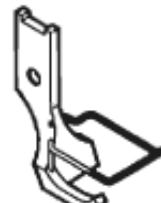
M. AUTOMATIC PRESSER FOOT LIFTING (SPECIAL ORDER PARTS)				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	87033468T0	Knee Lifter Lever	1	
2	ZSB16039	Screw 1/4-40*8	2	
3	87038502T0	Air Cylinder	1	
4	ZMJ04016	Screw M4x0.7*50	4	
5	WA040007	Washer	4	
6	SC6-M5-A	Tube Joint	2	
7	U6-B1000	Tube	2	
8	87033469T0	Push Block	1	
9	87038501T0	Cylinder Support Plate	1	
10	ZSB11066	Screw 11/64-40*19	4	
11	WA049003	Washer	4	
12	EP6212-0A	Regulator Support Plate	1	
13	FR150-02	Regulator	1	
14	G4-QPM20	Tube Joint	1	
15	WA050001	Washer	2	
16	ZMJ05008	Screw M5x0.8*10	2	
17	ZML05005	Nut M5x0.8	2	
18	ZMT05004	Wood Screw	2	
19	G4-CTC602	Tube Joint	1	
20	G4-PU46	Tube Joint	1	
21	MLK01	Silencer	2	
22	G4-SV51001B	Solenoid Switch	1	
23	G4-PU46	Tube Joint	2	
24	2430913500	Solenoid Mounting Plate	1	
25	ZMB03006	Screw M3x0.5*27	2	
26	ZML03002	Nut M3x0.5	2	
27	ZMT03006	Wood Screw	2	
28	VJ032061B	Plug Cover	1	
29	VJ032118	Pin Terminal	2	
30	VJ032061A	Connector Cover	1	
31	U6-B1000	Tube	1	

N. ACCESSORIES



N. ACCESSORIES				
REF. NO	PART. NO	NAME OF PART	QTY	NOTE
1	A7001-0A	Cover	1	
2	A7000-0A	Accessory Box	1	
3	A7010-0A	Screw Driver (small)	1	
4	A7010-1A	Screw Driver (middle)	1	
5	A7010-2A	Screw Driver (Large)	1	
7	A7012-1A	Oiler	1	
8	TRB09x10	Wrench 9 x 10	1	
10	ZMQ08001	Screw M8x1,25*65	4	
11	WA089001	Washer	4	
12	ZML08001	Nut M8x1,25	4	
13	6210119000	Head Rest Wood	1	
14	A7040-0A	Bobbin Winder	1	
15	ZMT05001	Wood Screw	2	
16	WA059003	Washer	2	
17	J7050-0A	Thread Stand	1	
18	2430342100	Knee Lifter Couplink	1	
19	2430342600	Spring Plate	1	
20	ZSB09009	Screw 9/64-40*5	1	
21	ZSB15041	Screw 15/64-28*14.5	1	
22	2430342200	Knee Lifter Coupling Shaft	1	
23	2430342000	Knee Lifter Crank (Front)	1	
24	ZSD20004	Screw 5/16-24*13	1	
25	ZSD20003	screw 5/16-24*21	1	
26	WB081001	Spring Lock Washers	1	
27	6210341900	Knee Lever Rod	1	
28	A7037-0A	Knee Guird	1	
29	A7037-1A	Knee Plate	1	
30	A7036-0A	Retainer	1	
31	ZSD15007	Screw 15/64-28*14	1	
32	87033352T0	Belt Cover C	1	
33	ZMB04009	Screw M4x0.7*6	8	
34	8230335101	Belt Cover A	1	
35	ZSB11041	Screw 11/64-40*7	4	
36	8230335801	Belt Cover D	1	
37	ZMT05003	Wood Screw	2	
38	WA059003	Washer	2	
39	6220335300	Belt Cover Stud (A)	3	
40	87033357T0	Belt Cover Stud (B)	1	
41	8230335201	Belt Cover B	1	
42	6220913500	Vibration Preventing Rubber	2	
43	87131832T0	Bobbin	4	
44	6120914005	Ground Wire Asm.	1	
45	ZSB11011	Screw 11/64-40*9	1	
46	87109133K0	Screw Driver	1	
47	INDP x 17-21	Needle DP x 17-21	4	

O. GAUGE PARTS LIST

GC-3317-448 MH		
		
87131113V0		
		
87131614W0	87131614V0	87131614U0
		
87101510V0	87101510U0	87101510S0
		
87101530V4	87101530U4	

www.garudan.cz