

# User's manual



## **GIF-2500**

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## 1. TECHNICAL PARAMETERS

<b>Machine type</b>	GIF-2500
<b>Use for materials</b>	Knit and woven materials
<b>Speed of sewing</b>	6 500 rpm
<b>Stitch length</b>	1,3 – 4,3 mm
<b>Needle system and force</b>	UY128GAS (Nm. 65-90)
<b>Foot stroke</b>	7 mm with top cover / 8 mm without top cover
<b>Weight</b>	Head 58 kg / Complete 86 kg
<b>Dimensions</b>	Head 65x45x62 cm / Complete 107x55x140 cm

### DESCRIPTION AND DETERMINATION:

Bottom and top cover machines are suitable for the production of home textiles, children's clothing, swimwear, underwear, sportswear and other similar products where either the underlying elastic stitch or top cover stitch is required

### MACHINERY LIQUIDATION INSTRUCTIONS:

After the technical life of the machine has ended, transfer it to ANITA B, s.r.o. or another company involved in the professional disposal of products.

## 2. SAFETY PRECAUTIONS

Do not put the sewing machine into operation until proper training is provided by an expert or qualified person and unless you are familiar with safety precautions.

1. Every sewing machine may only be operated by properly trained personnel.
2. Consider the applicable safety regulations of your country.
3. The sewing machine may only be used for the activity for which it is intended. Other uses are not permitted.
4. All safety precautions must be observed on the machine prior to commissioning or operation.
5. Protective glasses are recommended for personal safety.
6. If modifications or changes are made to the machine, safety regulations must be followed. Adjustments are only made on your own responsibility.
7. For the following work, the main switch of the machine must be switched off or the fork must be pulled out of the power socket (use mechanically operated clutch motors without a trip fuse to wait until the engine stops):
  - a) When threading the needles (needles), hooks, etc.,
  - b) When changing needles, presser foot, stitch plates, hooks, hooks, feeders, needle shields, fingers, work conductors, etc.,
  - c) When leaving the workplace and leaving the workplace unattended.
  - d) Machine maintenance (during cleaning).
8. Repairs, maintenance and servicing of machines may only be carried out by an expert or a qualified person. For repairs, only spare parts from the machine manufacturer must be used.
9. Work on the electrical installation of the machine may be carried out by an electromechanician or under the supervision and control of a qualified person.
10. Work on parts and equipment under power is not permitted.
11. Before the maintenance and repair of pneumatic equipment, it is necessary to disconnect the compressed air source. Residual compressed air must be drained before work starts.
12. It is the responsibility of the user if the safety measures in the operating instructions are not observed.
13. Instructions for the use of the respective drive are an integral part of these operating instructions and must be observed when working. In particular, "Security instructions".

**IMPORTANT NOTICE:**

To avoid malfunctions or damage, please observe the following points:

1. Clean the machine thoroughly and then oily before using it for the first time.
2. Check that the mains voltage corresponds to the voltage stated on the engine rating plate. If not, do not put the machine into operation at all.
3. When operating the machine, the hand wheel must be rotated towards the operator; If this is not the case, switch off the engine.
4. Do not exceed 3/4 of the maximum machine speed in the first two weeks.
5. Always set the threaded lever to its highest position before removing the seam.

**Safety instructions:**

1. The machine may only be used for its intended purpose. When adjusting for other designs, all applicable safety regulations must be observed.
2. The operation of the machine without protective equipment provided by the factory is not permitted.
3. The machine may only be switched on and operated by a properly instructed person (operator).
4. When replacing sewing tools, such as needles, presser foot, stitch plates, feeders and coils, when leaving the workplace and during maintenance work, the machine must first be switched off by mains switch or disconnected from the mains.
5. Work on wiring may only be carried out by electricians or by appropriately instructed persons.

### 3. INSTALLING THE MACHINE INTO OPERATION

To avoid malfunctions or damage to the machine, the following precautions must be observed: clean the machine from preservatives, drop 1-2 drops of oil into the hat, remove the front cover, and lubricate the eyebolts of the needle bar and the thread of the thread lever.

Have the expert check that the electrical installation of the machine is OK, including the appropriate electrical voltage. motor current and make sure that the handwheel of the machine rotates towards the operator after the electric motor is connected (according to the arrow). In the first two weeks, do not use the full machine speed, stitch only about 3/4 of the maximum speed.

#### **ATTENTION!**

**Do not interfere with the electrical installation of the machine, call an expert-electromechanician. Danger of electric shock.**

**When working on and near the machine, be careful not to cause injury. Ensure that no liquid can flow into the electrical installation and cause a short-circuit or other electrical installation failure. Observe generally valid safety regulations.**

**When working on the machine, be especially careful in the vicinity of the needle, cutting knives, yarn levers and pressure elements of the work.**

**When pivoting the machine on the pedestal, take extra care to avoid overturning the machine with the stand.**

**When folding the machine's head into the working position, grasp the head with both hands so that there can be no injury between the folding machine and the base plate.**

#### **1. Before use:**

- a) Do not start the engine when the pedal is depressed.
- b) Always switch off the main switch when leaving the workplace.
- c) When repairing the machine or changing the needle, make sure the machine is turned off.
- d) Ensure that the ground wires are firmly connected.
- e) Do not use a large number of connections per node.
- f) Observe the safe distance from noise sources.
- g) Wait a few minutes after switching off the machine for any electronic motor operation.
- h) If the system fails, first identify the type of error, clear the error, and then turn on the device again.
- i) Check the connection of all connectors and cables.
- j) After a long machine shutdown or when installing a new machine 2 to 3 times, inflate the oil to the marked position on the hem of the rim, pressure bars and rods.
- k) Set the first 4 - 5 days of use for less than 3,000 rpm for a perfect fit. With the oil mark, make sure the oil flows.

## 2. Installation:

### a) Motor, belt and belt cover:

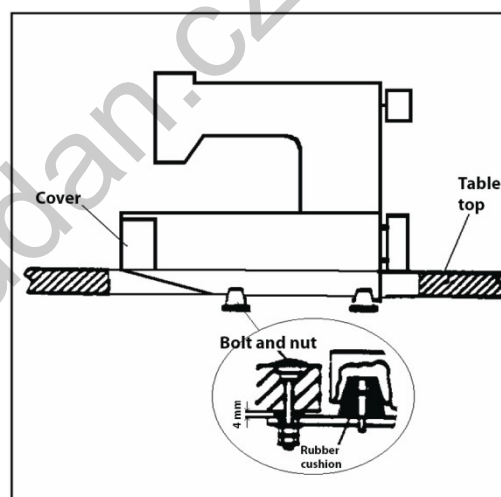
The maximum sewing speed of this machine is 6500 s. p. m. and ordinary speed is 5000 s. p. m. During the first 200 hours (or first month) of using the machine, please do not exceed 80% of the ordinary speed which is 4000 s. p. m.

- 1) Use v belt according to the pulley and be sure the motor running direction is clockwise and the motor belt tension can be pressed inward about 2 cm (Fig. A).
- 2) Don't forget install the cover of the belt and pulley (Fig. B)

### b) Table top installation:

Install the machine correctly referring to the illustration. Set bolts and nuts to machine table and put rubber cushions on bolts and rest the machine on them securely.

If using rubber cushion to adjust the height of machine then, must make sure there is no interference between machine and table top, so can open up the oil filter bolt and nut side cover without any problem.





## 4. LUBRICATION

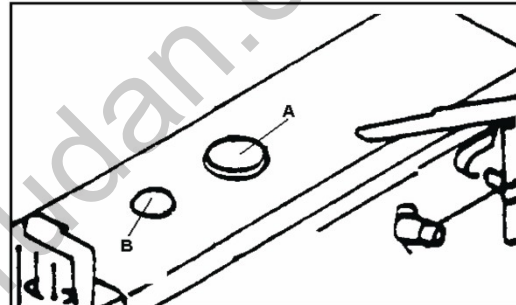
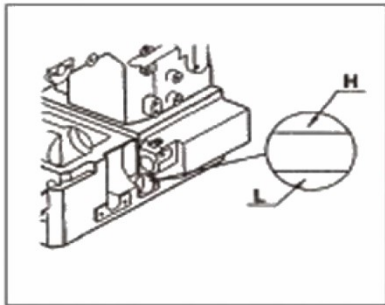
### 1. Lubrication oil and cooling oil:

Please use Garudan m22, Mobil #10 or equivalent oil for lubrication oil and use silicone oil for cooling oil.

### 2. Feeding oil:

The lubrication oil has been drained off completely before delivery, adding oil to the upper line of oil gauge (c) by removing seal plug (a). Also, please make sure the oil flows out of nozzle (b) at the start of operation.

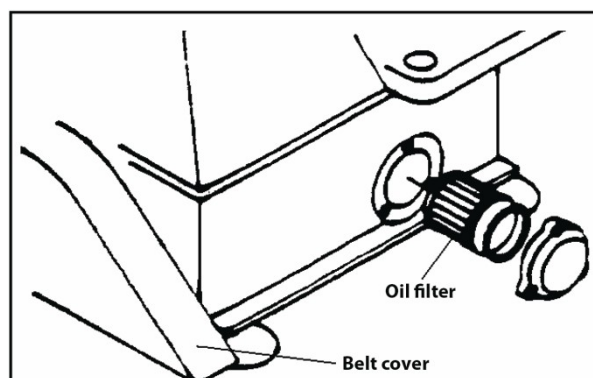
Before starting a brand new machine or a machine which has not been used for more than a couple of weeks, lubricate the needle bar first. Before using the machine, check the oil level is above the mark L



### 3. Changing oil:

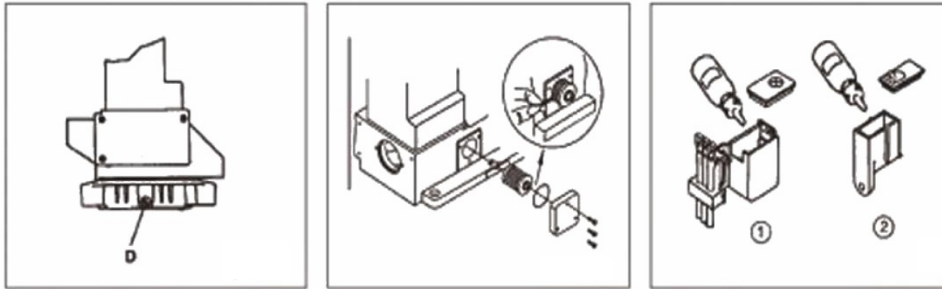
For the longer life of machine, change lubrication oil completely after 250 hours (or 4 weeks) of initial operation initial operation.

- A. After taking off belt cover, remove v-belt from motor pulley, and remove machine head from machine table.
- B. Loosen screw (d) and drain off all the oil from the machine.
- C. After draining, tighten screw (d) back.
- D. When replenishing oil please refer to paragraph 4-2 "feeding oil" above.



#### 4. Oil filter:

Although the machine is using oil pump lubrication and splashing lubrication systems, please check and clean oil filter every month. And when no oil or very little oil comes out of nozzle even indicator shows normal, please check oil filter and replace it if necessary.



#### 5. Adding cooling oil:

Avoid needle breaking, stitch jumping or thread melting problems etc. Please fill cooling oil tank and felt with silicone oil under some special circumstances, cannot use silicone oil or no need to use silicone oil then, you can take felt off from.

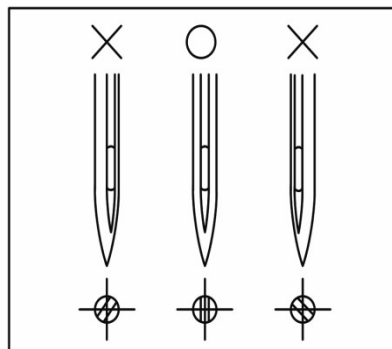
### 5. NEEDLE

#### 1. Needle selection:

Needle UY128gas of Groz Beekert is to be used. There are many sizes of needle according to the thickness and kind of fabrics used.

#### 2. How to replace the needle:

Replacing needle should be made correctly with the scarf facing rightly backward as shown in the illustration.



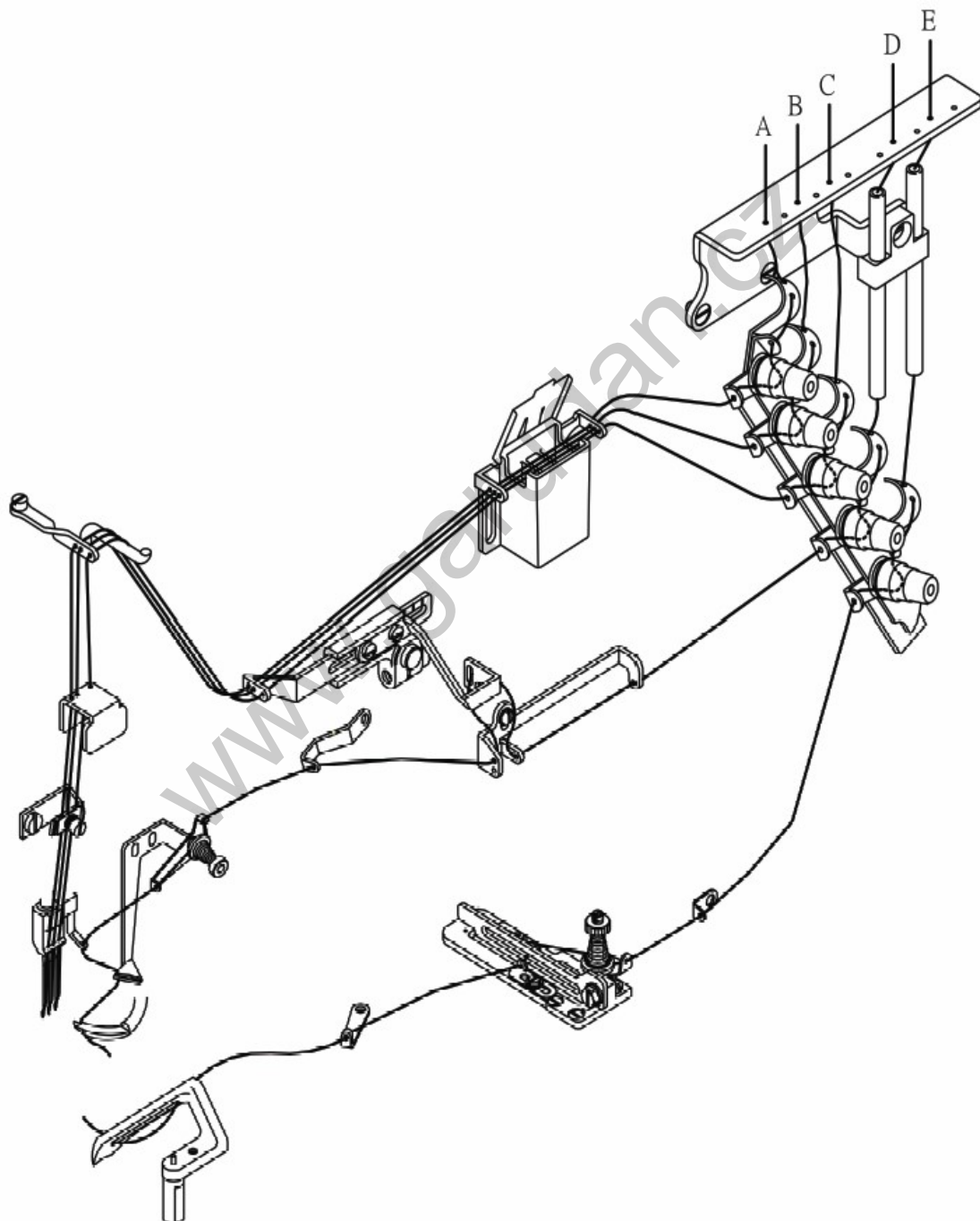
### 3. Threading:

Threading should be made correctly referring to the illustration. Improper threading might cause skip stitch, thread breakage and uneven seam etc. The threading for three needle machine is shown in the illustration below. For two needle machine, threading is the same except only two needle threads.

A, B, C – needle thread

D – top cover thread

E – looper thread

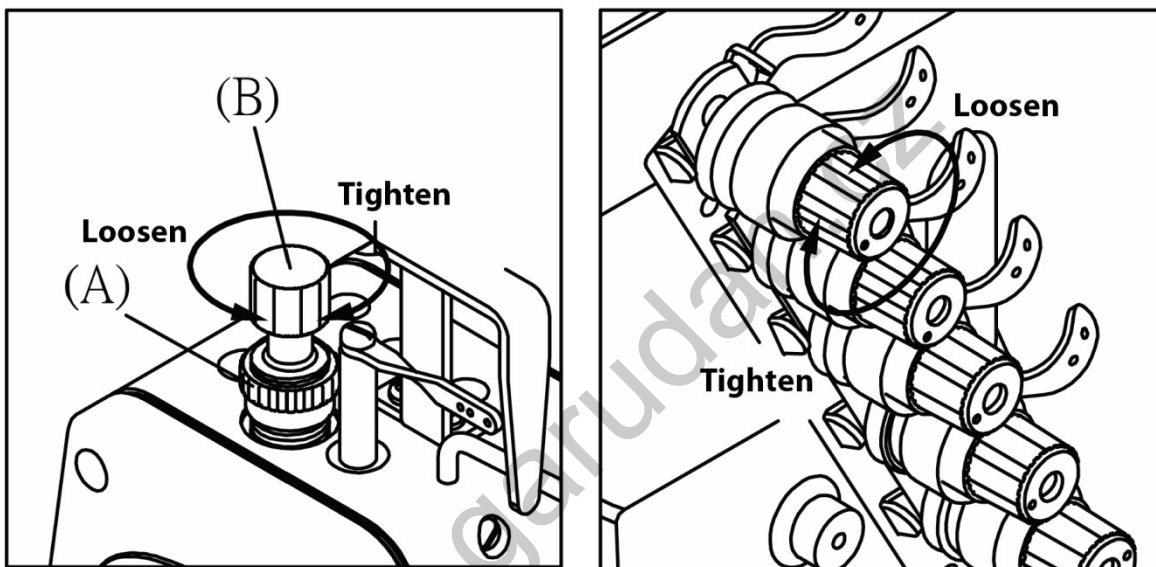


## 6. PROPER OPERATION ADJUSTMENT

Due to the thickness of fabrics, different materials different kinds of thread, Different stitch requirements the changes of differential ratio, all is affecting the sewing performance. Thus, must conduct the proper operation adjustment in order to get best sewing effects.

### 1. Pressure of presser foot:

To increase the pressure of presser foot, turn adjusting screw (b) clockwise after loosening lock nut (a) and to decrease, turn it counterclockwise. Pressure of presser foot should be as weak as possible so long as presser foot can operate properly.



### 2. Thread tension:

Different threads have different tensions and even same threads will have different tensions when go through different threading holes. Each thread tension can be adjusted by individual tension nut to increase thread tension, turn tension nut clockwise, to decrease thread tension, turn tension nut counterclockwise. Please use least thread tension as long as it will not affect the sewing effects.

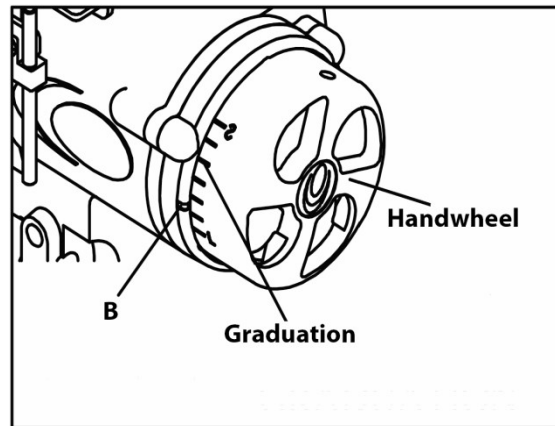
### 3. Adjusting stitch length:

Adjustment of stitch length can be made steplessly from 1.4mm/per stitch to 3.6mm/per stitch.

Stitch length	Stitch number	Stitch number
4,2mm	6 per inch	7 per 30 mm
3,6 mm	7 per inch	8 per 30 mm
2,4 mm	10,5 per inch	12,5 per 30 mm
1,4 mm	18 per inch	21 per 30mm

#### 4. Stitch length adjustment:

Turn hand wheel. One graduation on the Circumference of hand wheel indicates a stitch length (m. m). Which should be aligned with the mark (B). Then release hand.



#### 5. Adjusting the needle thread take-up:

Different threads have different stretch tension and cause skip stitching thread breaking and unstable stitching easily. This machine equipped with thread take-up, front needle thread guide, rear thread guide and auxiliary thread tension control guide in order to give letter control of the looper thread take-up and stabilize the stretching of looper thread.

The thread take-up and rear thread guide were set at standard position before shipment. As shown on figure A/B. And also can be adjusted as arrow directions if necessary

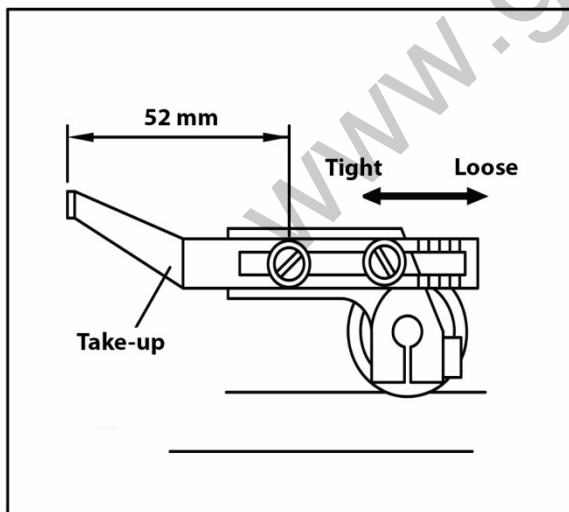


Fig. A

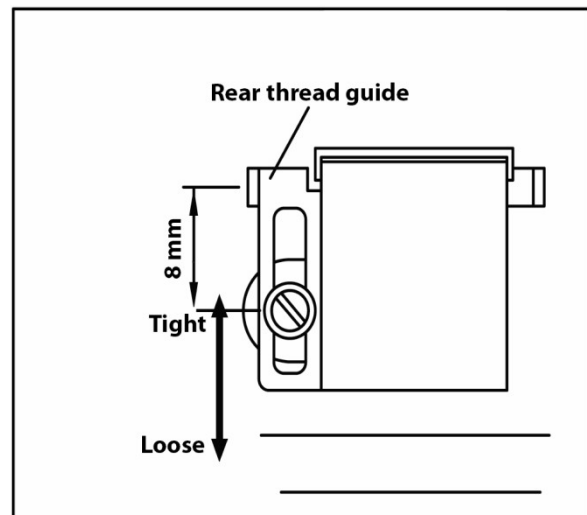


Fig. B

Sometimes, it is not so easy to make loop for some kinds of thread and also make it difficult for looper to catch the needle thread, causing skip stitch. In such case, can use auxiliary thread tension control guide to stabilize the threads (Fig. C)

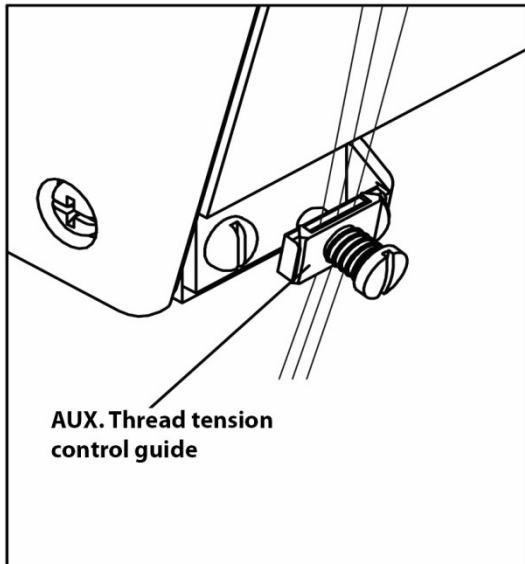


Fig. C

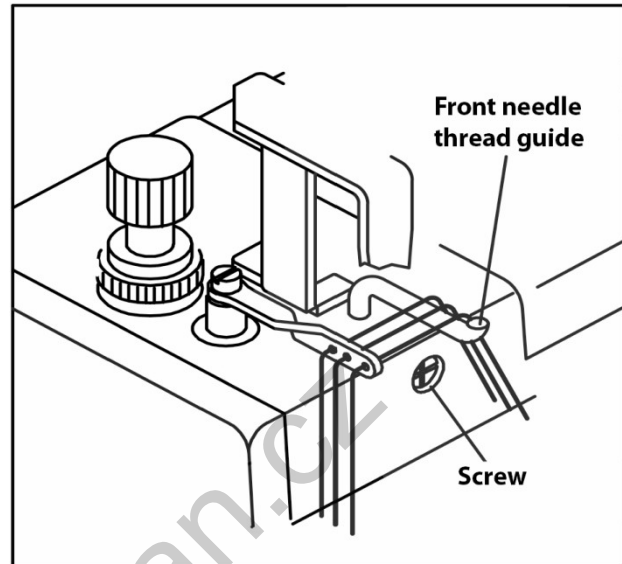


Fig. D

In case the formation of needle thread loop is unstable when using stretchable thread, you can solve this by adjusting the height of front needle thread guide, especially when looper move from right to the left. If the left needle skip the stitch when using synthetic thread or right needle interfere with the formation of thread loop when using blended thread, you can use front needle thread guide, with needle bar at the lowest position, the center of thread hole of rear thread guide eyelet should be even with the surface of front needle thread guide and front needle thread guide and rear thread guide should be parallel with each other (Fig. D)

### 6. Adjusting the looper thread take-up:

When left needle comes down to the half point (Fig. E), the thread must get off from the highest position of looper thread take-up. The adjustment is made by loosening screw, turn the looper thread take-up to the proper position and tighten the screw (Fig F).

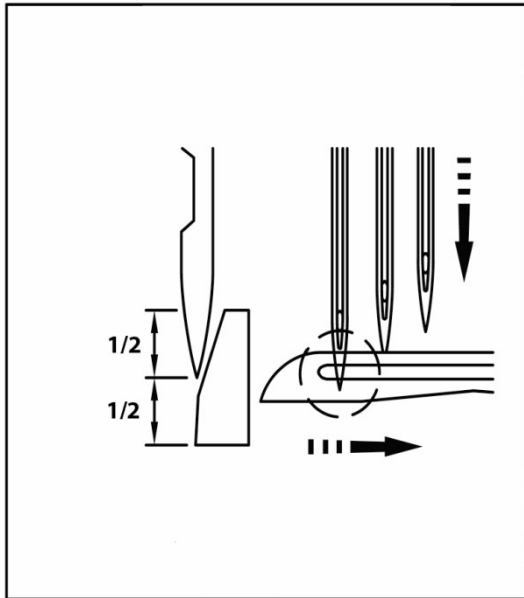


Fig. E

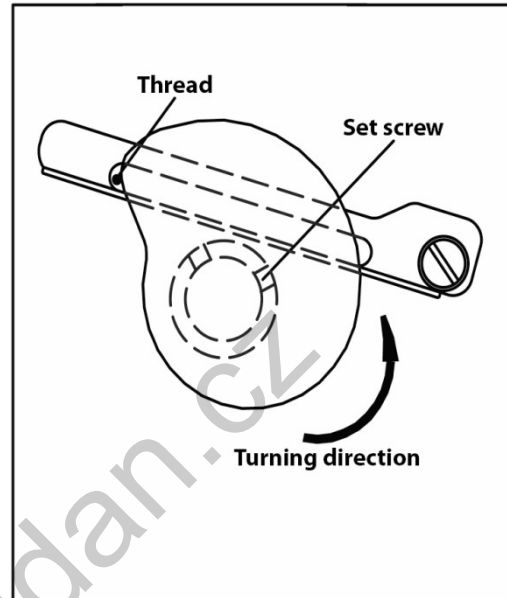


Fig. F

To decrease the amount of looper thread in the seam move thread guide eyelet to Aligning mark to increase, move it backward (Fig. G)

For stretchable threads, move right and left thread guides to aligning mark and also do not pass the thread between thread guide.

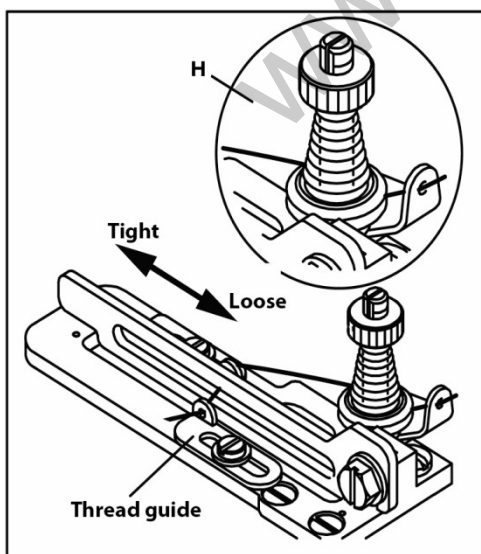


Fig. G

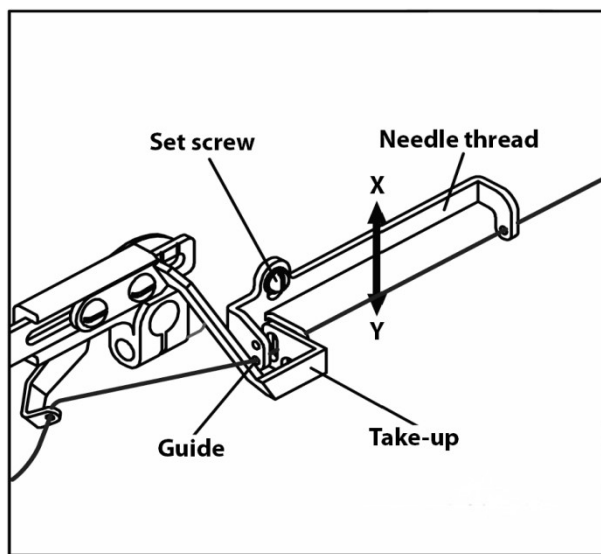


Fig. 1

## 7. Adjusting spreader thread take –up:

The thread amount of top cover thread is adjusted by spreader thread take-up. For standard position, loosening set screw, push thread guide upward to its highest position as x direction show. Then tighten the set screw.

Stretchable thread, push the thread guide downward as y direction and thread must pass through the eyelet of thread guide.

## 7. ADJUSTING OF MACHINE

This machine was sent to the standard position before delivery and it's unnecessary to re-adjust unless under some situation as changing the needle, looper, different kind of fabric or different sewing threads. Please adjust according to following items:

### 1. Adjusting presser foot and petting the height of presser foot:

It will be easier to conduct some adjustments by taking off the presser foot as follows:

Loose the lifter arm and loosen the screw from presser foot and stopper, lifting up the presser bar, you can take presser foot very easily. After changing, remember put it back in reverse sequence (Fig. A, B).

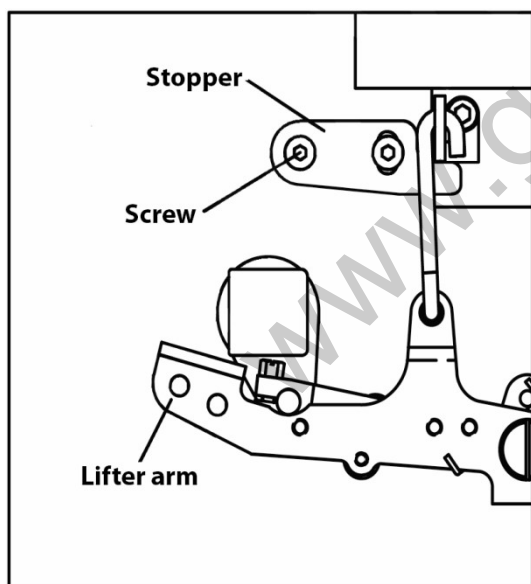


Fig. A

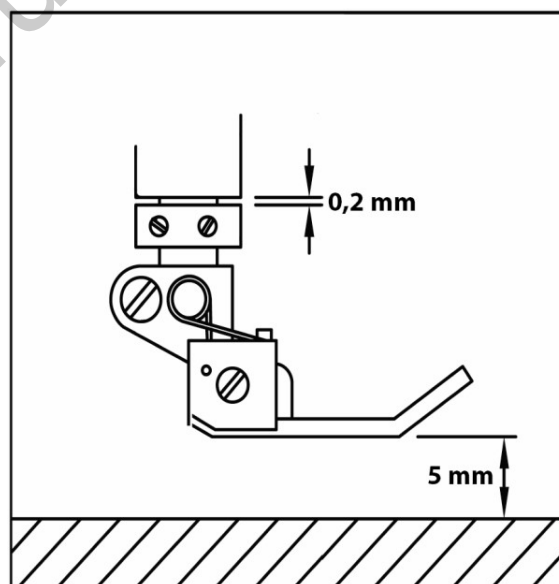


Fig. B



## 2. Adjusting the height of needle bar and needle drop point:

When the tip of looper comes to the center of left needle, the looper should be positioned above the upper end of needle eye by 0.5-1.0 mm as this is the standard position for needle bar (Fig. C).

Loosen the screw of needle bar clamp and adjust the needle bar to get proper height (Fig. D).

After adjustments, tighten the screw of needle bar clamp and make sure the needles are in the center of needle drop hole of needle plate (Fig. E).

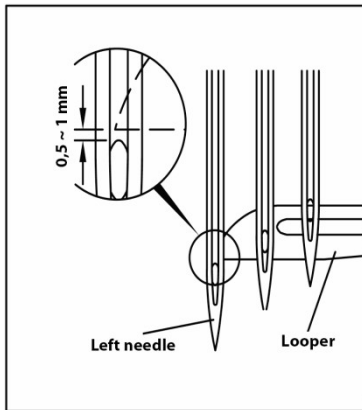


Fig. C

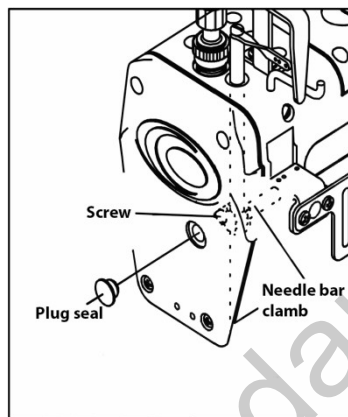


Fig. D

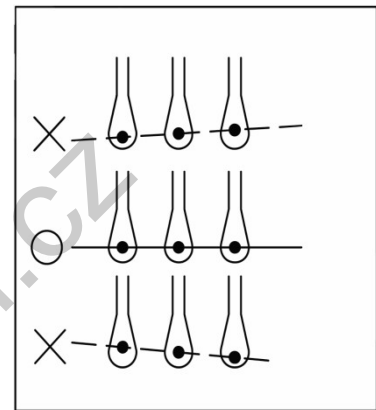


Fig. E

## 3. Installation looper:

Inserting looper all the way into looper holder and please make sure looper is fully fitted into proper position, then tighten screw (A), (Fig. F).

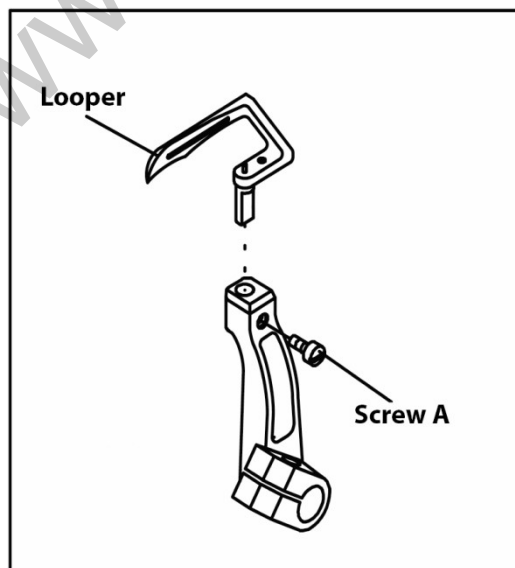
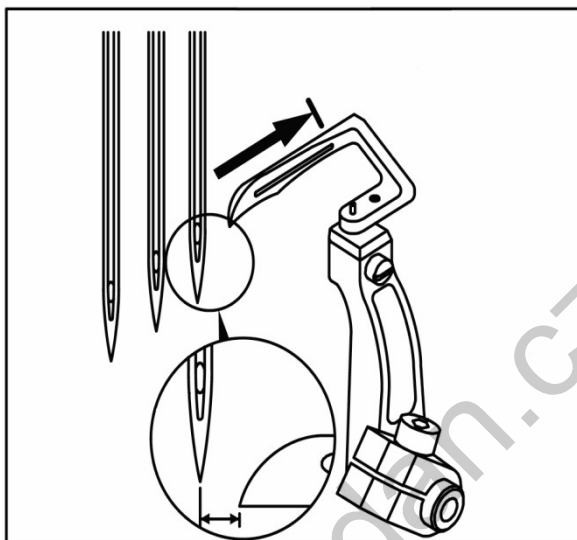


Fig. F

#### 4. Setting looper:

The looper is located at the extreme right when needle bar decent to its lowest Point. And the distance between the tip of looper and the center of right needle is various according to the needle distance. Please refer to the table below for Adjustment and the adjustment is made by loosening the screw (B) of looper holder (Fig. G)



Obr. G

NEEDLE DISTANCE	LOOPER MOVEMENT TO THE RIGHT
3,2 mm	4,4 mm
4,0 mm	4,0 mm
4,8 mm	3,6 mm
5,6 mm	3,2 mm
6,4 mm	2,8 mm

### 5. The clearance between looper and needle:

**GIF-2500-356**

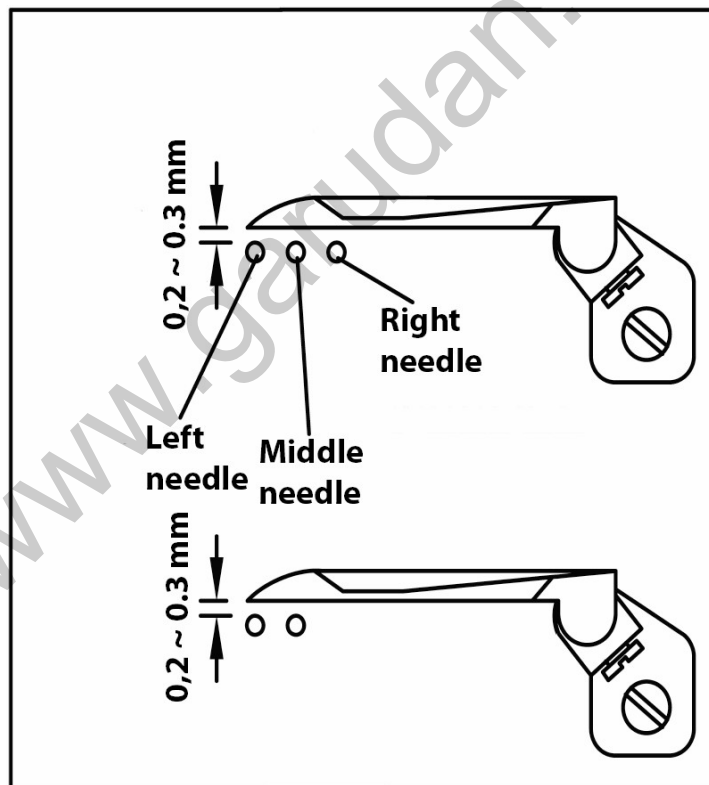
**GIF-2500-364**

When the tip of looper meets the center of left needle. The clearance between them should be 0.2-0.3mm. When the tip of looper meets the center of middle needle. The clearance between them should be minimal. When the tip of looper meets the center of right needle. Giving the clearance of 0-0.05 mm between the tip of looper and needle by pushing rear needle guard 0.2-0.3 mm against the needle. The adjustment is made by loosening screw of looper holder.

**GIF-2500-240**

**GIF-2500-248**

When the tip of looper meets the center of left needle, the clearance between them should be 0.2-0.3 mm. When the tip of looper meets the center of right needle, the rear needle guard should push needle 0.2-0.3 mm in order to get the clearance of 0-0.05 mm between the tip of looper and needle.



## 6. The relation between needle and rear needle guard:

### 6.1 Setting the height of rear needle bar:

When needles descend to the lowest position. The ridge line (A) of rear needle guard (B) align with the center of the eye of each needle. The adjustment of the height of rear needle guard is made by loosening the screw (Fig. I).

### 6.2 Setting the angle and timing of rear needle guard:

When the tip of looper passes the center of right needle. The rear needle guard will slightly push the right needle forward about 0.2-0.3 mm. And at this time, the clearance between looper and right needle is 0-0.05 mm and looper will touch middle needle slightly and the clearance between looper and left needle is 0-0.05 mm. These adjustments are made by loosening the set screws (C) and (D), (Fig. J, K).

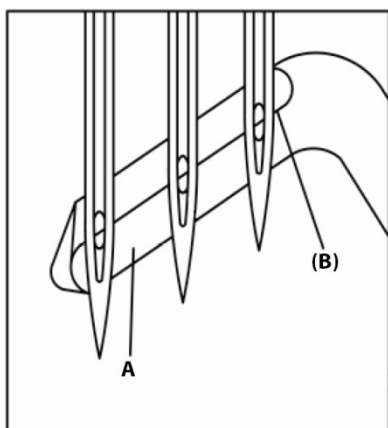


Fig. I

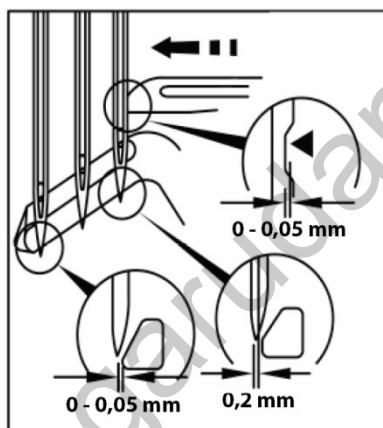


Fig. J

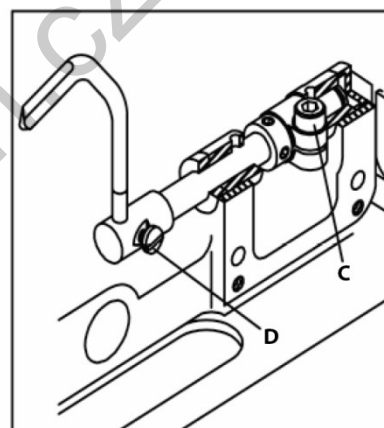


Fig. K

## 7. The relation between needle and front needle guard:

### 7.1 Setting the angle and timing of front needle guard:

When the tip of looper comes to the center of left needle and right needle, adjust the clearances between those needles and front needle guard should be 0 - 0.3 mm. The adjustments are made by loosening set screw (E) and move front needle guard to its proper position. Then, tighten the set screw (E), (Fig A).

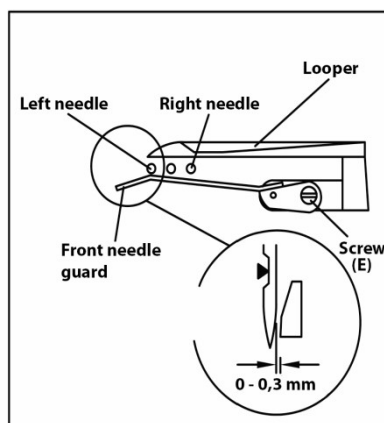


Fig. A

### 8. Setting the height of feed dog:

When feed dogs rise to the upper most, their height of feed dogs is 1 - 1.2 mm above the surface of needle plate and differential and main feed dog are parallel to the surface of needle plate (Fig. B)

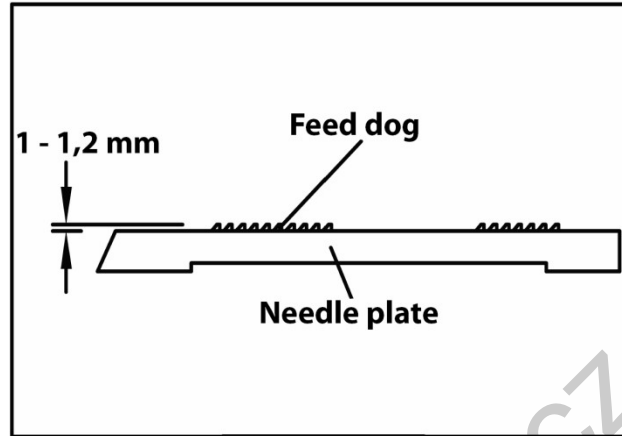


Fig. B

### 9. Top cover stitch:

#### 9.1 Installing and petting the spreader:

The height of spreader is 9-11 mm above the surface of needle plate (Fig. C)

When spreader move to the left and passes behind the left needle, the clearance is 0.5- 0.8 mm. And when spreader reaches the extreme left, the distance between tip of hooking part and the center of left needle is 4.5-5.5 mm (Fig. D).

The adjustments are made by loosening screw (a) for the height of looper and loosening screw (b) for moving position of looper (Fig. E)

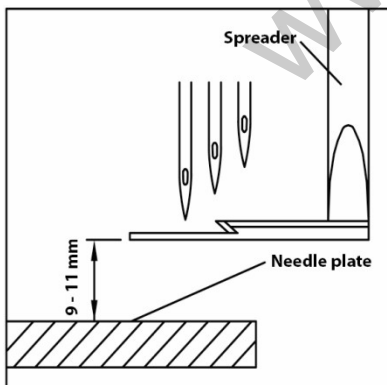


Fig. C

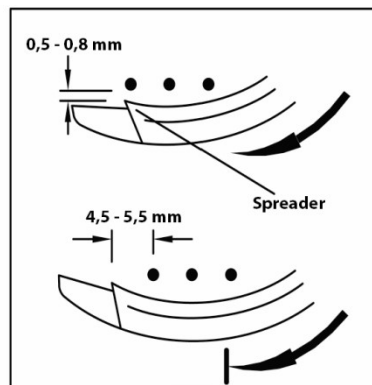


Fig. D

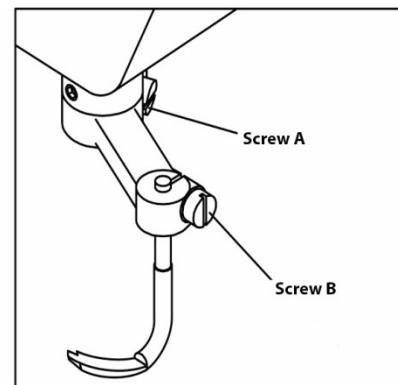


Fig. E

## 9.2 Setting the top cover thread guide:

There must be a clearance of 0.5 mm between the bottom of the top cover thread guide and spreader and when spreader comes to the extreme right, and at this position, the thread is caught by thread hooking part properly. And hanging loosely on the top cover thread guide (Fig. F).

When needle bar at the lowest position. The clearance between the surface of top cover thread guide (a) and the undersurface of top cover thread eyelet (b) is 1.0 mm. Set the thread hole of top cover thread eyelet on the center line of the slot of top cover thread guide then tighten screw (Fig. G.).

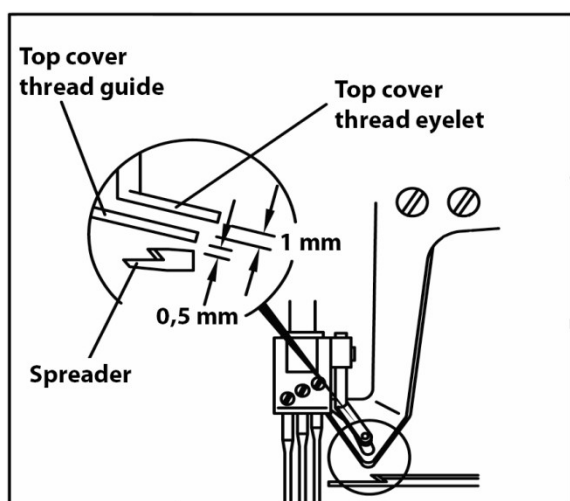


Fig. F

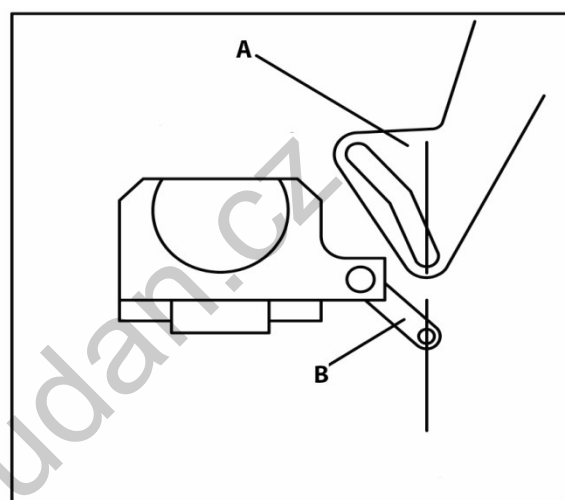
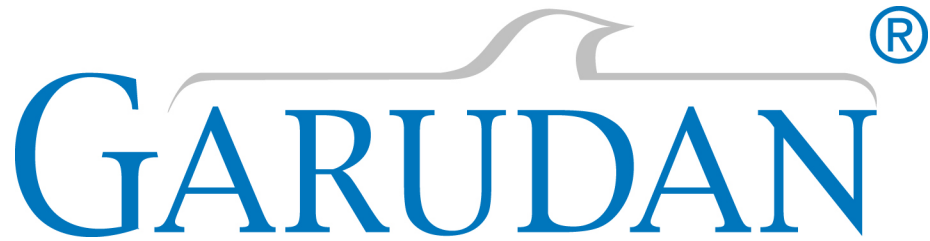


Fig. G

# Spare Parts List



## **GIF-2500**

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MP03400EN_180828	28. 08. 2018	Jakub Lžičař

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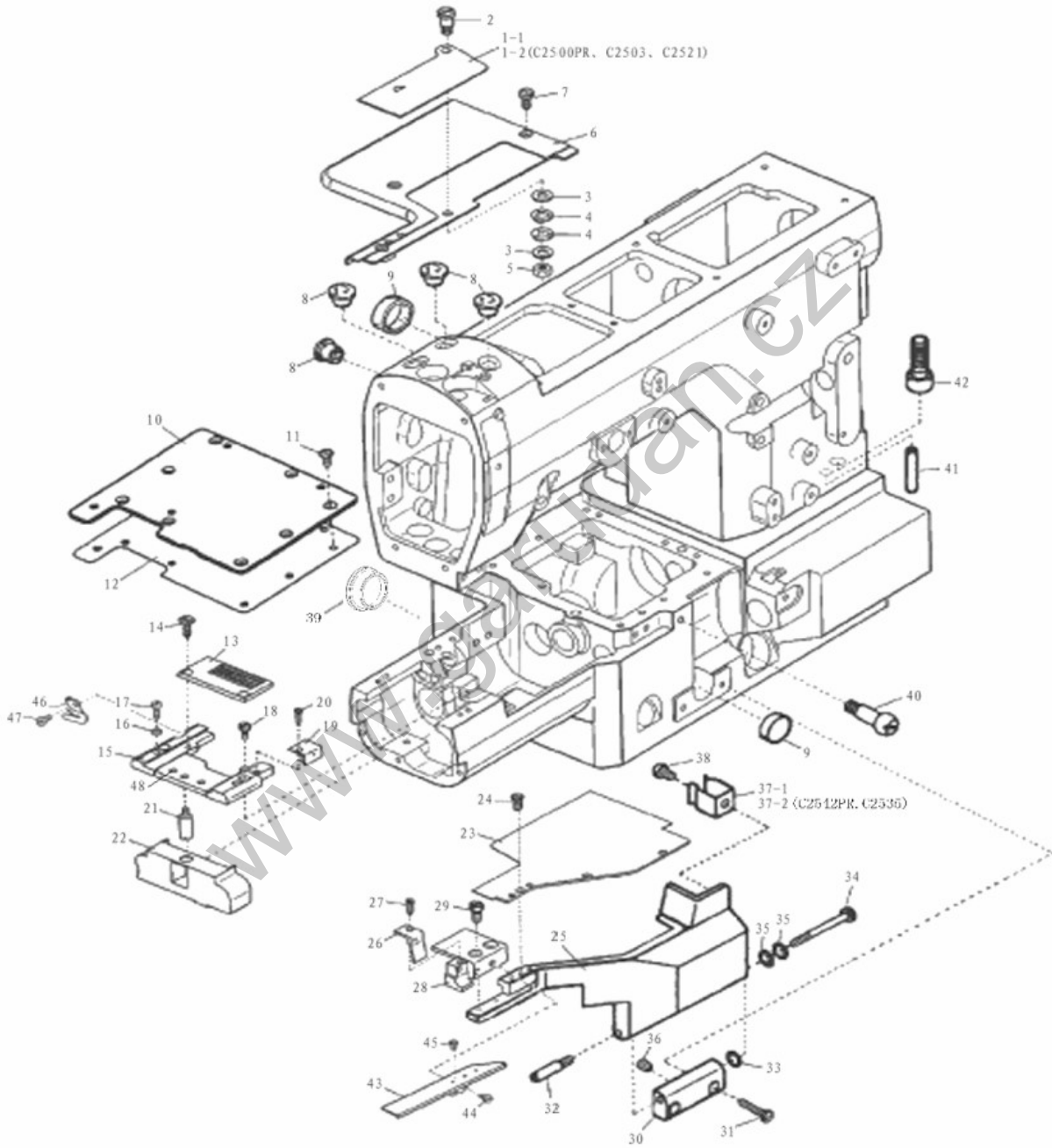
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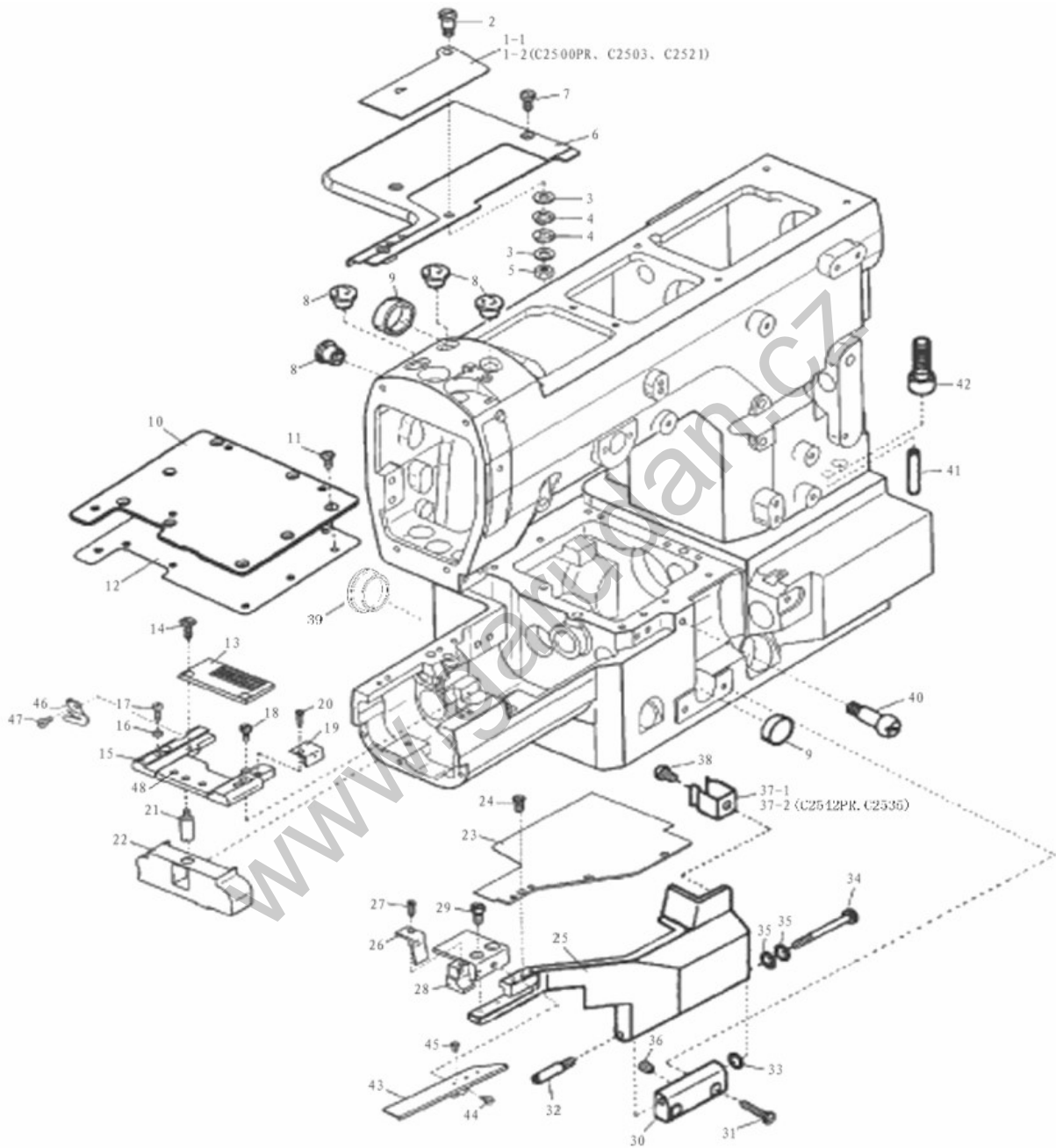
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# 1. MISCELLANEOUS PARTS 1 (1/2)



1. MISCELLANEOUS PARTS 1 (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1-1	10012292	Looper Thread Take-up Cover		1	
1-2	10010500	Looper Thread Take-up Cover		1	
2	10011222	Screw (M4)		1	
3	10002995	Washer		2	
4	10009470	Washer		2	
5	10009471	Nut		1	
6	20003641	Cloth Plate		1	
7	10013178	Screw (M4×12)		3	
8	10013170	Seal Plug		4	
9	10011186	Oil Seal		4	
10	10012588	Crant Chamber Cover		1	
11	10012641	Screw (M4×6.4)		8	
12	10012595	Crant Chamber Cover Gasket		1	
14	10012688	Screw (M3.5×4.5)		2	
15	10012309	Stitch Plate Support		1	
16	10013872	Knock Pin		2	
17	10012253	Screw (M3×8)		2	
18	10013938	Screw (M4×10)		2	
19	10012293	Stitch Plate Support Cover		1	
20	10012730	Screw (M3×5.6)		1	
21	10012295	Screw (M5)		1	
22	10012248	Oil Proof Cover		1	
23	20003622	Front Cover (Upper)		1	
24	10012642	Screw (M3.5×7)		3	
25	20003621	Front Cover		1	
26	10012240	Front Plate		1	
27	10012730	Screw (M3×5.6)		1	
28	20003619	Front Plate Support		1	
29	10002959	Screw (M4×16)		2	
30	20003623	Front Cover Hinge		1	
31	10012594	Screw (M4×18.5)		2	
32	10012598	Screw (M4×8)		1	
33	10003073	Washer		1	
34	10012592	Screw (M4×30)		1	
35	10003026	Washer		2	
36	10009074	Screw (M4×4)		1	
37-1	10011220	Spring		1	
37-2	10012699	Spring		1	
38	10012728	Screw (M3.5×4)		1	

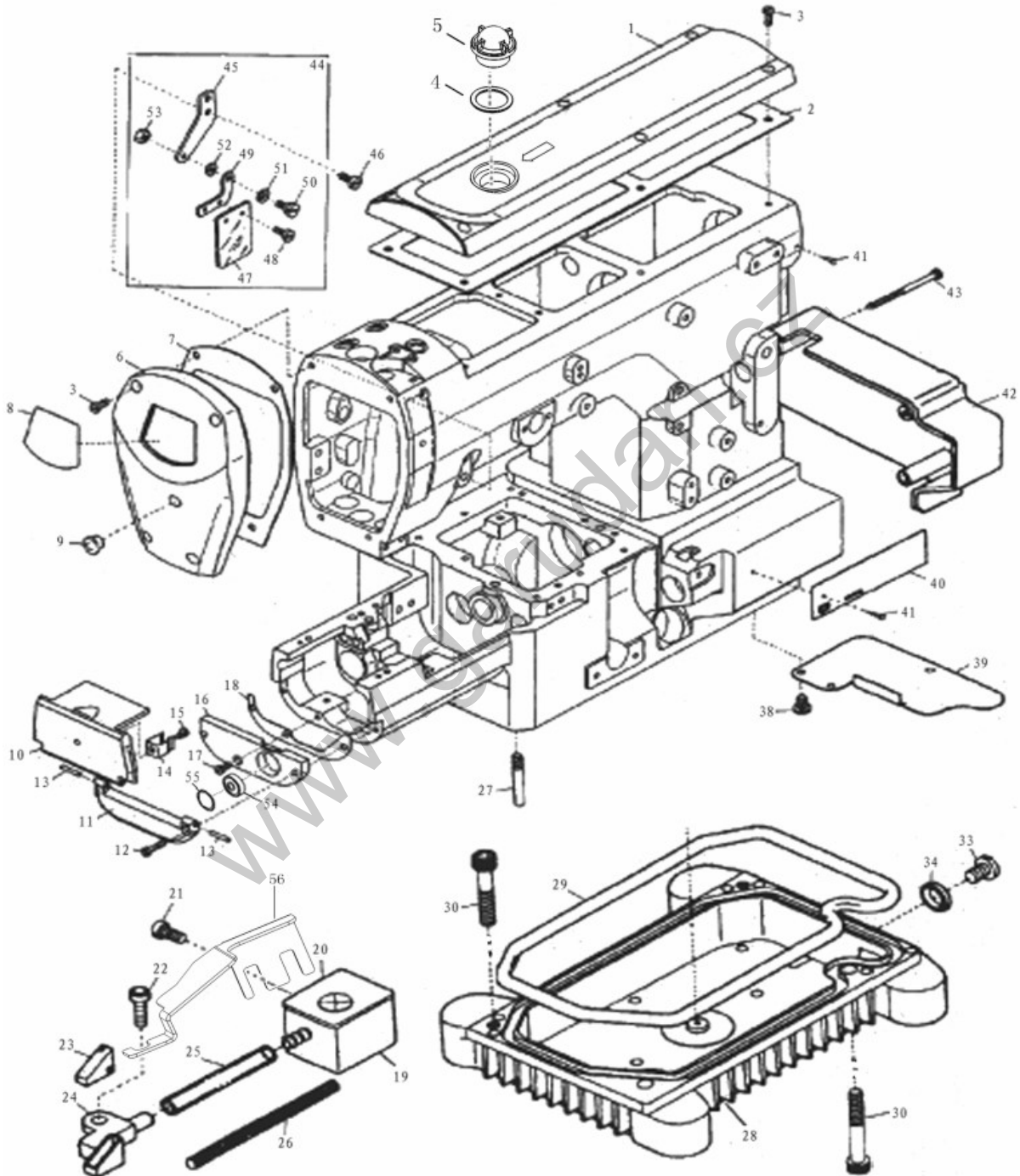
# 1. MISCELLANEOUS PARTS 1 (2/2)



1. MISCELLANEOUS PARTS 1 (2/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
39	10012764	Seal Plug		1	
40	10012721	Screw (M4)		1	
41	10007433	Pin		2	
42	10007432	Screw (M10)		4	
43	10012250	Front Cover Plate		1	
44	10010594	Screw (M4×7.5)		2	
45	10012599	Screw (M5×7.8)		2	
46	10012311	Cutter		1	
47	10010888	Screw (M3×6.6)		1	
48	10012726	Gasket		2	

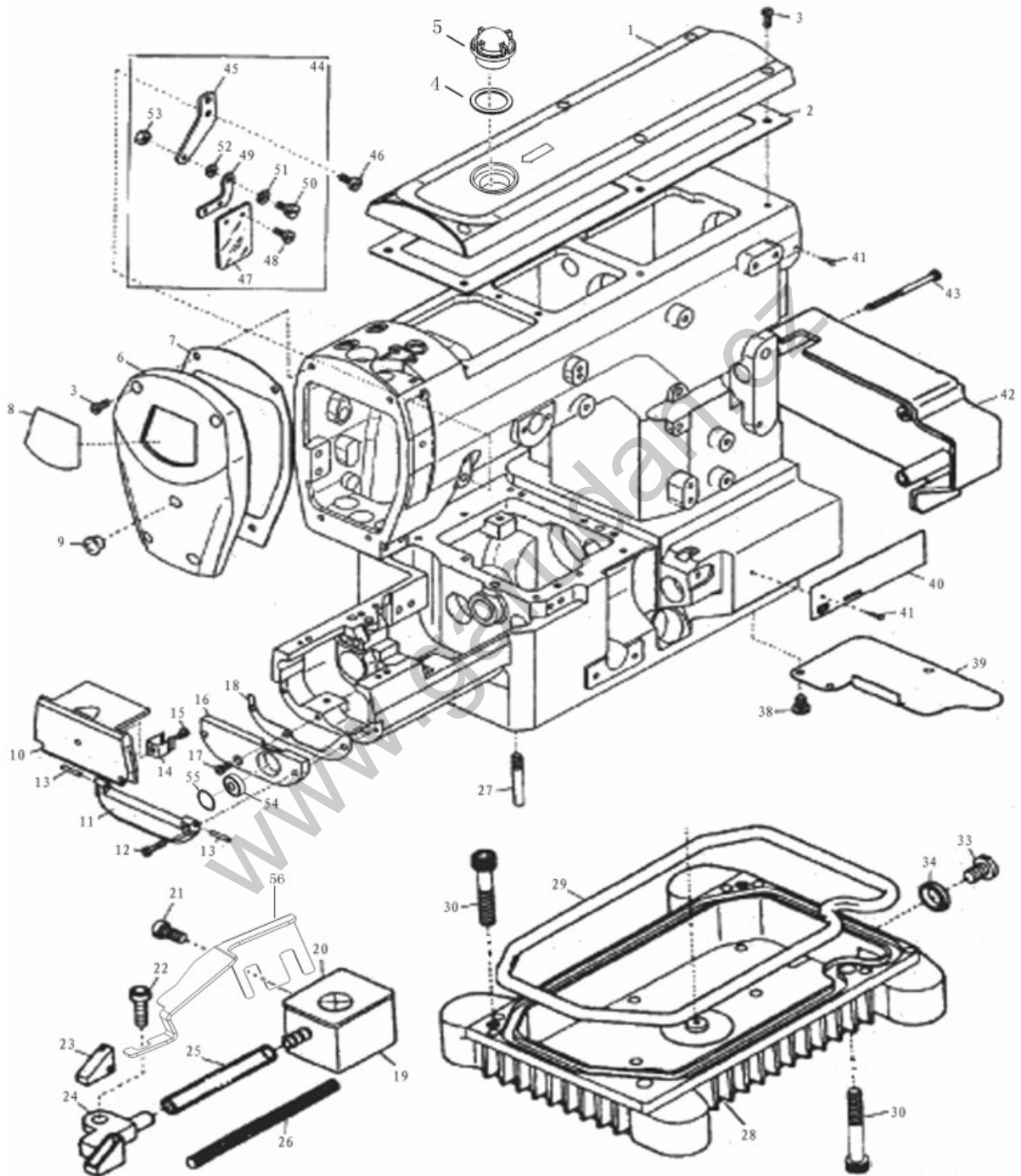
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## 2. MISCELLANEOUS PARTS 2 (1/2)



2. MISCELLANEOUS PARTS 2 (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	20003608	Top Cover		1	
2	10012294	Top Cover Gasket		1	
3	10042387	Screw (M4×12)		10	
4	10009156	Seal Plug		1	
5	10008938	Oil Sight Window		1	
6	20006670	Head Cover		1	
7	10010189	Head Cover Gasket		1	
8	10005468	Emblem		1	
9	10013170	Seal Plug		1	
10	10012290	Cylinder Side Cover (Upper)		1	
11	10010184	Cylinder Side Cover Hinge		1	
12	10010186	Screw (M3.5×16)		2	
13	10010185	Screw (M2.5)		2	
14	10011220	Cover Latch Spring		1	
15	10010188	Screw (M3.5×3.6)		1	
16	10010187	Cylinder Side Cover (Lower)		1	
17	10010157	Screw (M3.5×9)		1	
18	10012720	Gasket		1	
19	10012542	HP Container		1	
20	10012551	HP Container Cover		1	
21	10012509	Screw (M3.5×8)		2	
22	10012553	Screw (M4×8)		1	
23	10012552	HP Felt		1	
24	10012547	HP Cup		1	
25	10007796	Oil Tube		1	
26	10008075	Felt		1	
27	10012684	Machine Frame Supporting Bar		4	
28	10012545	Oil Reservoir		1	
29	10012541	Oil Reservoir Gasket		1	
30	10003142	Screw (M8×25)		4	
33	10009264	Screw (SM3/8"×28)		1	
34	10009263	Washer		1	
38	10012723	Screw (M4×5)		3	
39	10012683	Dust Proof Plate		1	
40	10004075	Model Plate (See The Below)		1	
41	10002840	Rivet		3	
42	10012310	Belt Cover		1	
43	10012685	Screw (M4×47)		3	

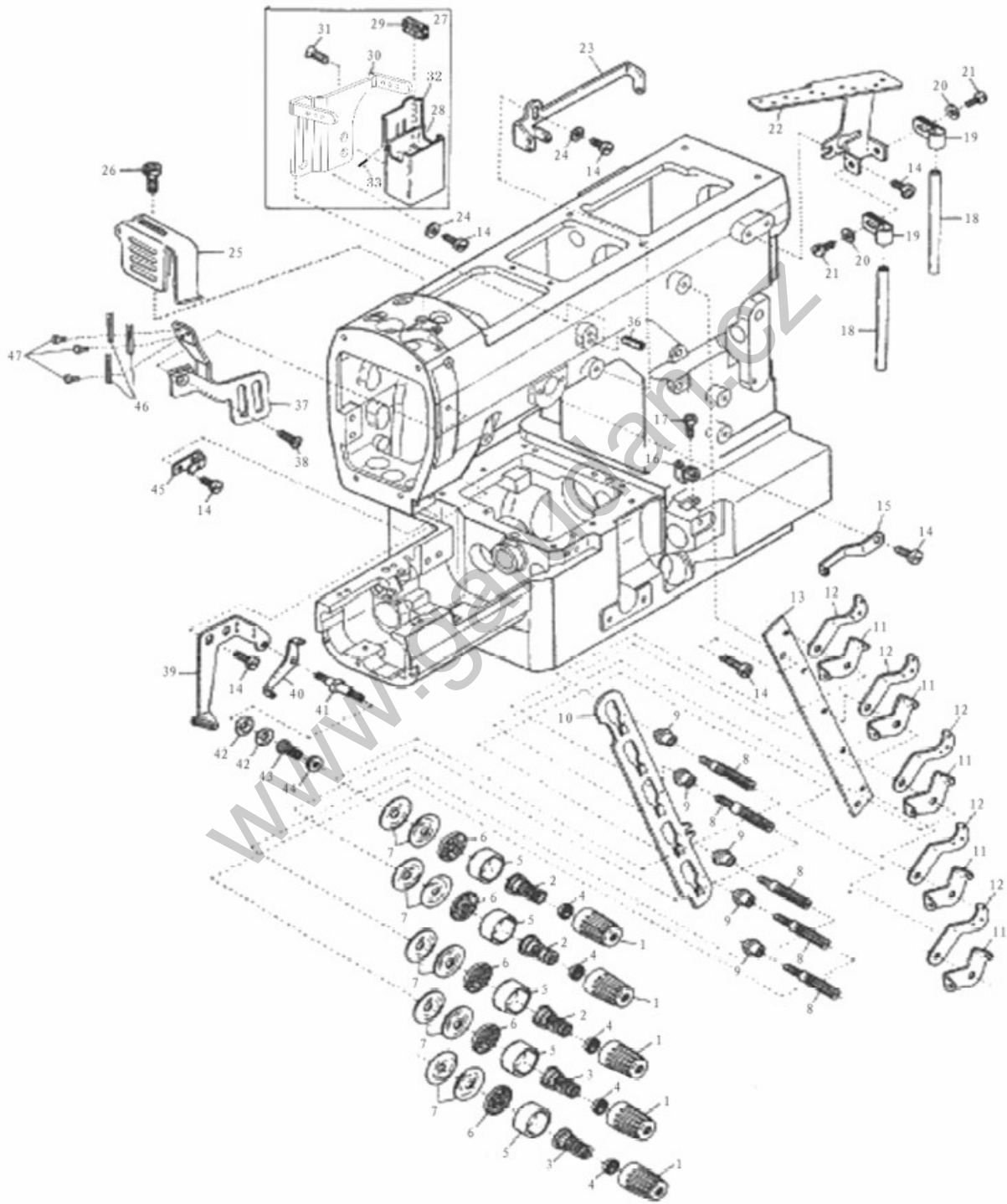
## 2. MISCELLANEOUS PARTS 2 (2/2)





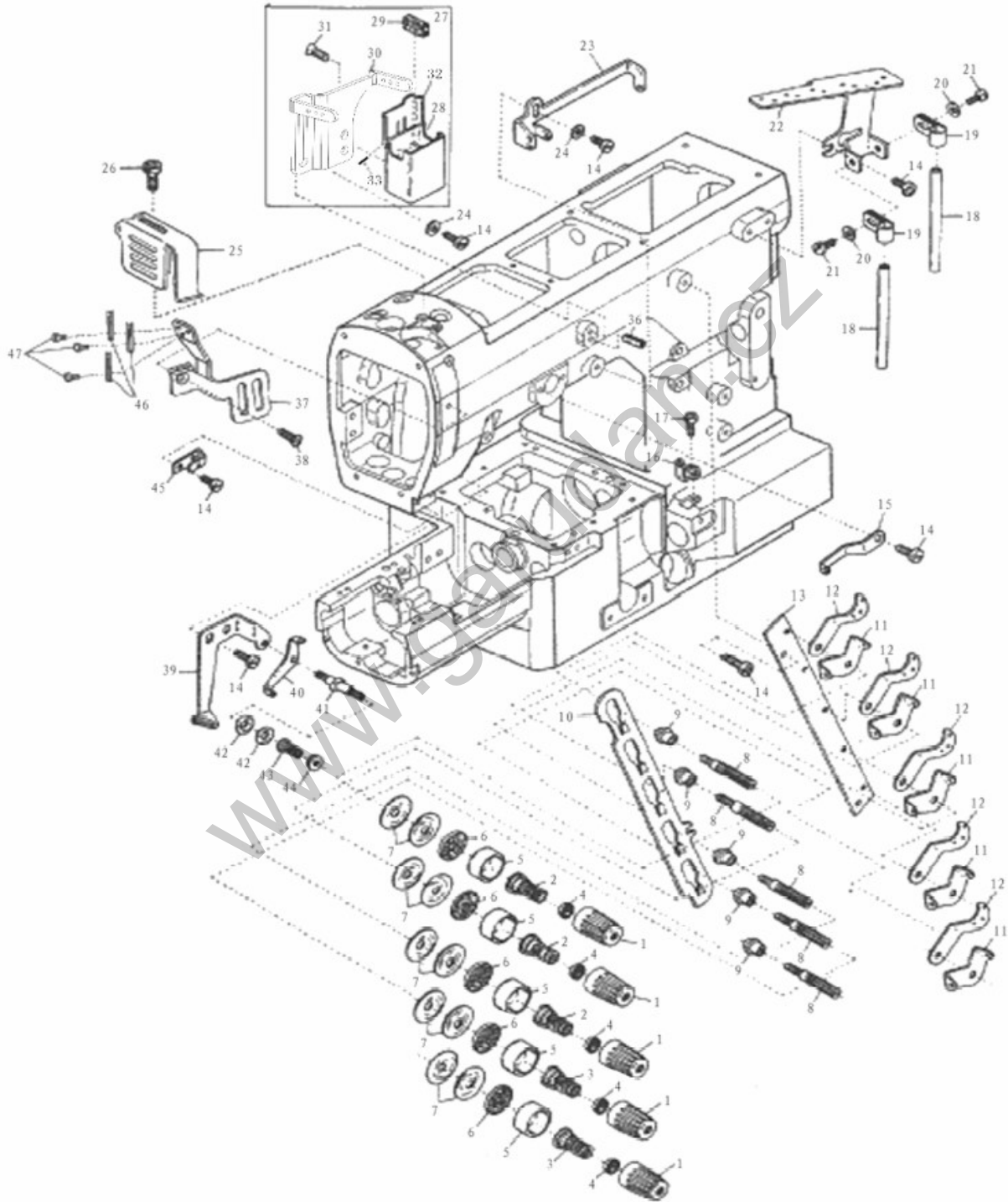
2. MISCELLANEOUS PARTS 2 (2/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
44	20002142	Eye Guard Complete Set		1	
45	10011179	Safety Plate Support		1	
46	10011618	Screw (M6×9)		1	
47	10011164	Safety Plate		1	
48	10011176	Screw (SM3/32"×56)		2	
49	10011167	Safety Plate Holder		1	
50	10011178	Screw (SM11/64"×40)		1	
51	10011261	Spring Washer		1	
52	10011168	Washer		1	
53	10011170	Nut		1	
54	10027118	Ball Bearing		1	
55	10010041	Bearing Cover		1	
56	10012329			1	
57	10008936			1	
58	10012251			1	
59	10012709			1	
60	10008974			1	

### 3. MISCELLANEOUS THREAD EYELETS (1/2)



<b>3. MISCELLANEOUS THREAD EYELETS (1/2)</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
1	10002538	Thread Tension Spring Cap		5	
2	10004233	Spring		3	
3	10004240	Spring		2	
4	10003111	Tension Spring Disc Support		5	
5	10004231	Thread Tension Spring Retainer		5	
6	10004238	Felt		5	
7	10003116	Tension Disc		10	
8	10004232	Screw		5	
9	10004236	Tension Post Ferrule		5	
10	10004234	Tension Disc Separator		1	
11	10004239	Tension Disc Eyelet		5	
12	10004241	Thread Lead-in Guide		5	
13	10004235	Tension Post Support		1	
14	10011264	Screw (M4×8)		10	
15	10010486	Top Cover Thread Eyelet (Left)		1	
16	10012768	Looper Thread Eyelet (Rear)		1	
17	10010594	Screw (M4×7.5)		1	
18	10033698			2	
19	10008228			2	
20	10010696	Washer		2	
21	10009325	Screw (SM9/64"×40)		2	
22	10010691	Thread Guide Plate		1	
23	10010754	Top Cover Thread Eyelet (Right)		1	
24	10010761	Washer		2	
25	10013910	Needle Thread Take-up Guard		1	
26	10011264	Screw (M4×8)		2	
27	20002103	SP Device, Complete Set		1	
28	10010753	SP Container		1	
29	10010687	Felt		1	
30	10010695	Needle Thread Eyelet		1	
31	10053226	Screw		2	
32	10010757			1	
33	10002880	Pin		2	
36	10010750	Pin		1	
37	10010499	Needle Thread Eyelet		1	
38	10011049	Screw (M4×8)		1	
39	10004130	Top Cover Thread Guide		1	
40	10010747	Supplementary Thread Guide		1	

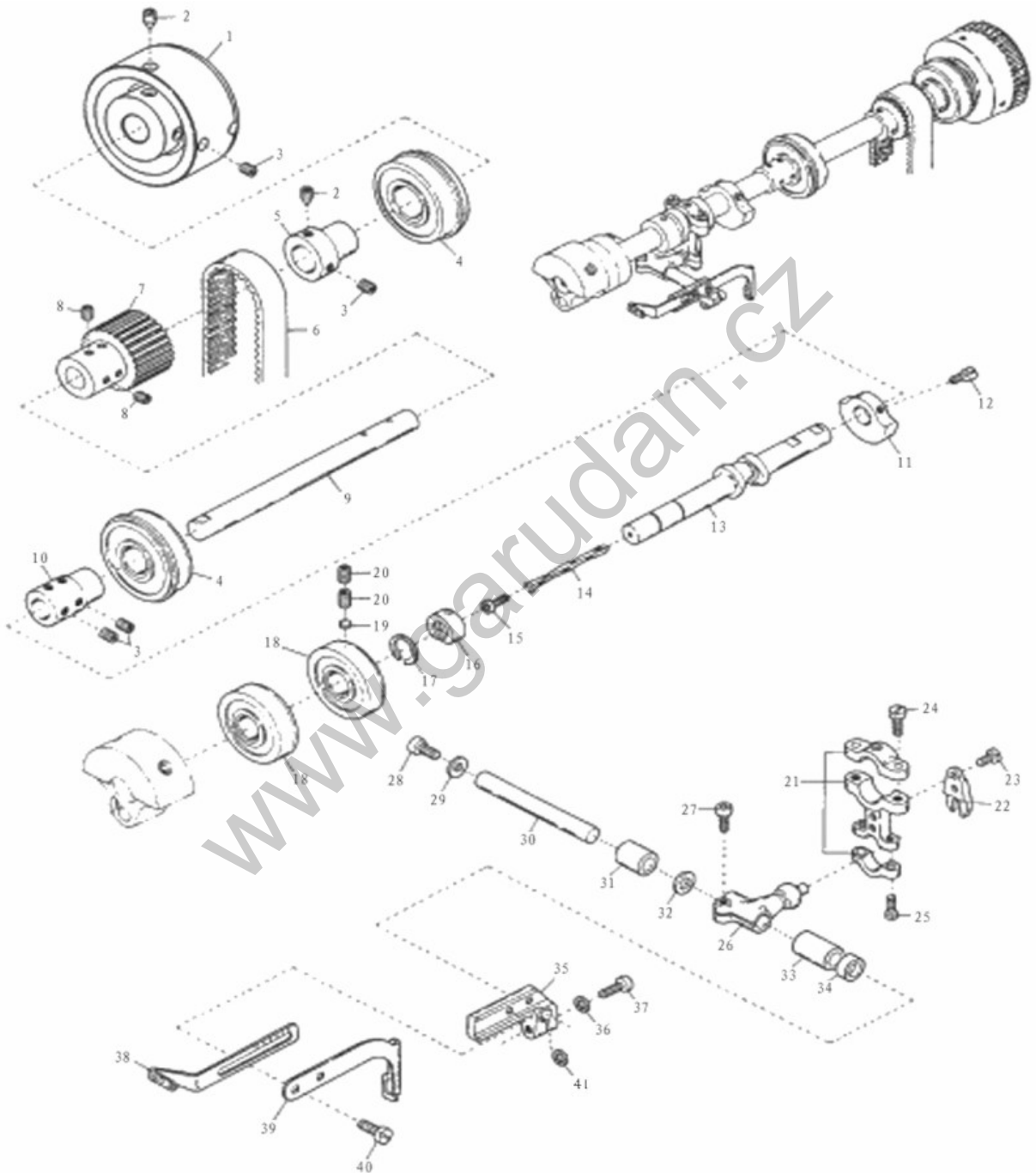
### 3. MISCELLANEOUS THREAD EYELETS (2/2)



<b>3. MISCELLANEOUS THREAD EYELETS (2/2)</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
41	10004254	Screw		1	
42	10004255	Supplementary Tension Disc		2	
43	10005522	Spring		1	
44	10004253	Nut		1	
45	10012229	Needle Thread Retainer Support		1	
46	10010523	Needle Bow Diaplasia Plate		3	
47	10014413	Screw (M2.5×4)		3	

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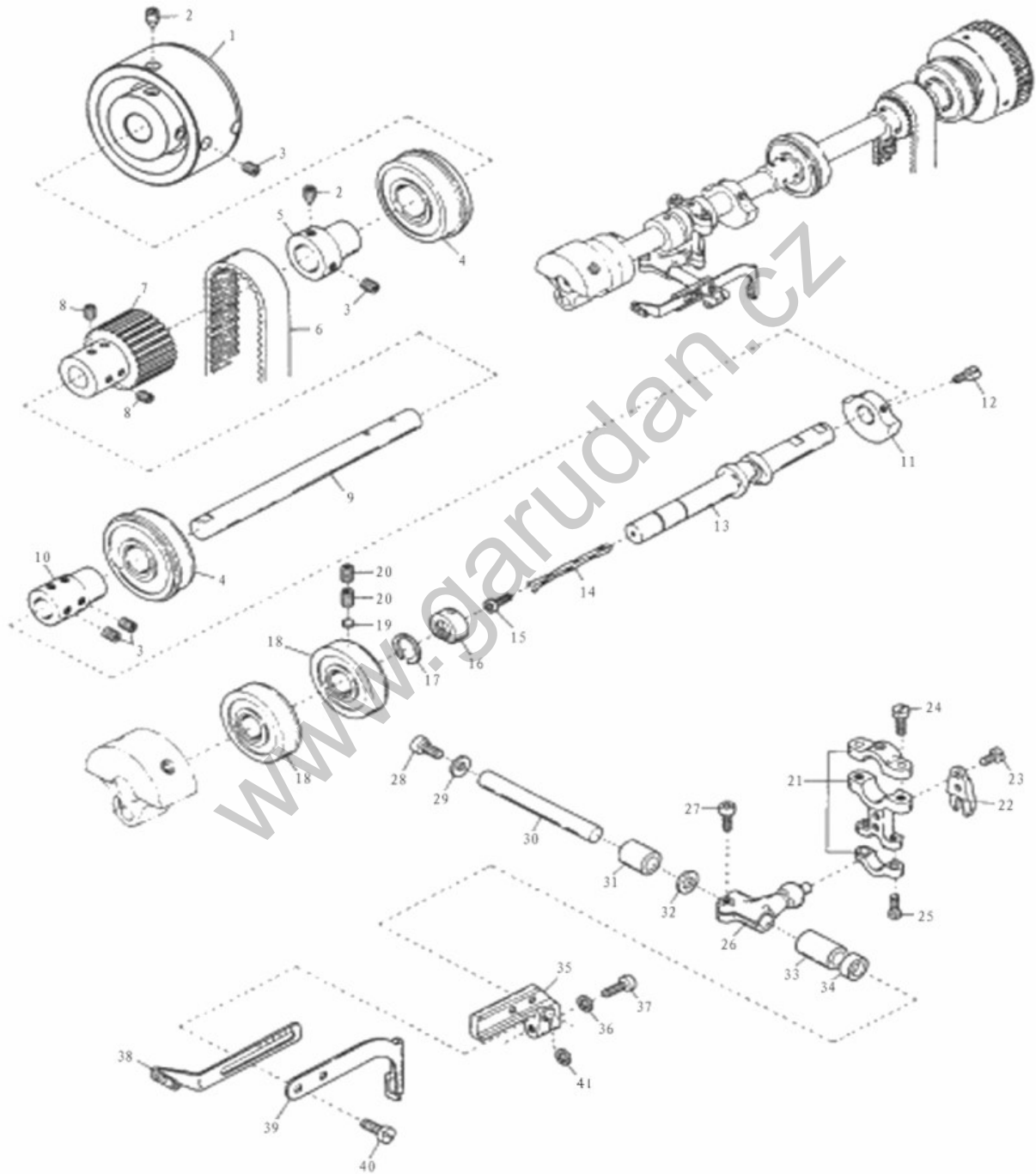
#### 4. UPPER SHAFT AND NEEDLE THREAD TAKE-UP MECHANISM (1/2)



**4. UPPER SHAFT AND NEEDLE THREAD TAKE-UP MECHANISM (1/2)**

Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	20003609	Hand Wheel		1	
2	10011966	Screw (M6×8)		2	
3	10010907	Screw (M6×6)		6	
4	10025881	Ball Bearing		2	
5	10010950	Hand Wheel Adapter		1	
6	10008146	Timing Belt (Upper)		1	
7	10012801	Upper Shaft Sprocher		1	
8	10011969	Screw (M6×5)		4	
9	10011163	Upper Shaft		1	
10	10011172	Upper Shaft Joint		1	
11	10010955	Counterweight (Small)		1	
12	10011264	Screw (M4×8)		2	
13	10004407	Upper Crankshaft		1	
14	10008063	Oil Wick		1	
15	10012723	Screw (M4×5)		1	
16	10011072	Oil Sleeve		1	
17	10003290	Retaining Ring		1	
18	10025896	Ball Bearing		2	
19	10011174	Plug		1	
20	10011177	Screw (M6×5)		2	
21	10004406	Connecting Rod		1	
22	10011052	Guide Fork		1	
23	10040191	Screw (SM1/8"×44)		2	
24	10014395	Screw (M4×14)		2	
25	10011054	Screw (M3.5×10)		2	
26	10004409	Driving Lever		1	
27	10009008	Screw (M6×16)		1	
28	10010953	Screw (M5×10)		1	
29	10010954	Washer		1	
30	10010959	Driving Shaft		1	
31	10011112	Bushing		1	
32	10011171	Washer		1	
33	10011115	Bushing		1	
34	10011180	Oil Seal		1	
35	10010956	Bracket		1	
36	10005537	Washer		1	
37	10010958	Screw (M5×14)		1	
38	10010960	Needle Thread Take-up		1	
39	10010957	Top Cover Thread Take-up		1	

#### 4. UPPER SHAFT AND NEEDLE THREAD TAKE-UP MECHANISM (2/2)



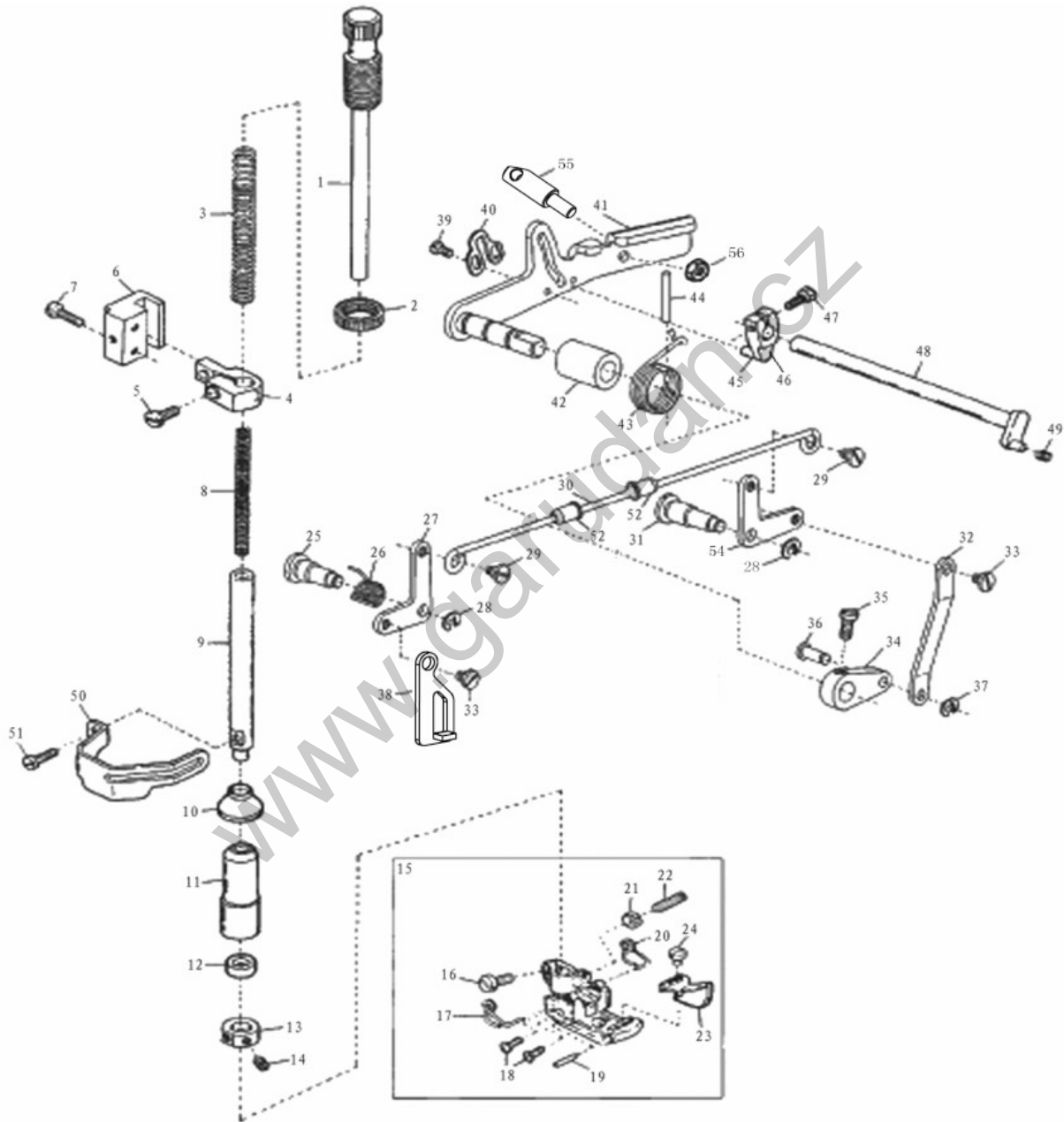


**4. UPPER SHAFT AND NEEDLE THREAD TAKE-UP MECHANISM (2/2)**

<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
40	10013159	Screw (M3.5×7.5)		2	
41	10032265	Washer		1	

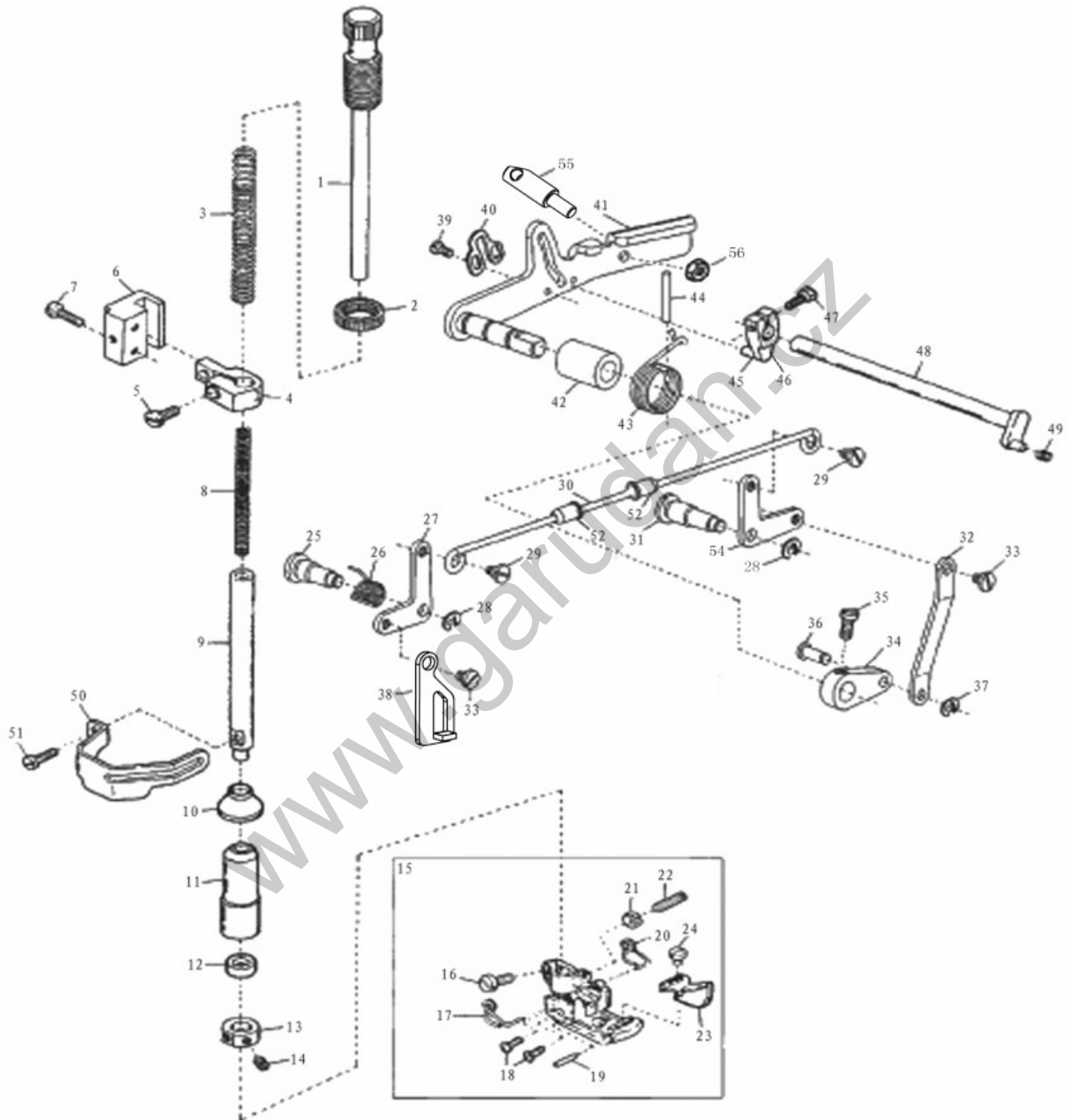
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### 5. PRESSER FOOT MECHANISM (1/2)



5. PRESSER FOOT MECHANISM (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10004127	Screw		1	
2	10011913	Nut		1	
3	10010492	Spring		1	
4	10011879	Presser Bar Connecting Bracket		1	
5	10009037	Screw (M4×12)		1	
6	10011883	Presser Bar Guide		1	
7	10013732	Screw (SM11/64"×40)		2	
8	10011888	Spring		1	
9	10010496	Presser Bar		1	
10	10011457	Oil Protector Cover		1	
11	10011108	Bushing		1	
12	10032359	Oil Seal		1	
13	10011878	Collar		1	
14	10011887	Screw (SM9/64"×40)		2	
15		Presser Foot, Complete Set		1	
16	10009115	Screw (M3.5×8)		1	
17	10004710	Spring		1	
18	10003933	Screw (M2.5×4.2)		4	
19	10005598	Pin		1	
20	10004809	Spring		1	
21	10005577	Nut		1	
22	10005576	Screw		1	
23	10005595	Fabric Guide		1	
24	10005573	Screw (M2.5×3.5)		1	
25	10010521	Lever Pin		1	
26	10010493	Spring		1	
27	10010463	Presser Foot Lever		2	
28	10010649	Collar		2	
29	10013217	Screw (SM3/16"×40)		2	
30	10010464	Presser Foot Rod		1	
31	10010524	Lever Pin		1	
32	10010403			1	
33	10003496	Screw		2	
34	10010458	Lifter Lever		1	
35	10011664	Screw (SM15/64"×28)		1	
36	10011886	Pin		1	
37	10003248	Collar		1	
38	10010487	Lifter Link Plate		1	
39	10010904	Screw (SM9/64"×40)		2	
40	10011889	Lifter Lever Stop		1	

### 5. PRESSER FOOT MECHANISM (2/2)

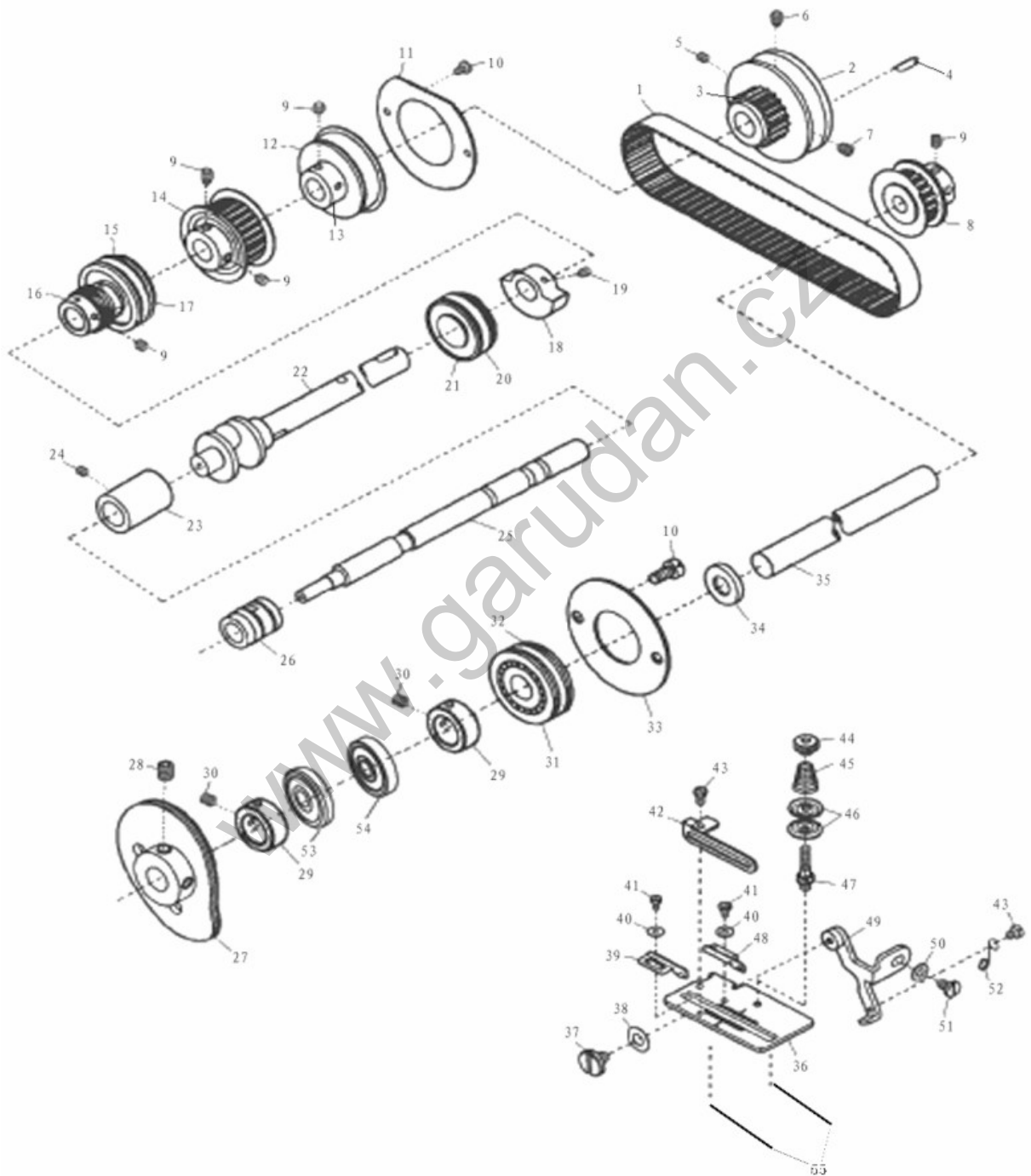


<b>5. PRESSER FOOT MECHANISM (2/2)</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
41	10010469	Lifter Lever		1	
42	10011105	Bushing		1	
43	10010495	Spring		1	
44	10002772	Pin		1	
45	10011628	Pin		1	
46	10011617	Tension Release Lever		1	
47	10011625	Screw (SM11/64"x40)		1	
48	10014069	Tension Release Shaft		1	
49	10011880	Spring		1	
50	10011881	Finger Guard		1	
51	10011882	Screw (M3x4.6)		1	
52	10004599	Seal Plug		2	
54	10010460			1	
55	10010502			1	
56	10003084			1	



6. NEEDLE BAR MECHANISM					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10013191	Needle Bar Thread Eyelet		1	
2	10010904	Screw (SM9/64"×40)		1	
3-1	10051692	Needle Bar		1	
3-2	10051693	Needle Bar		1	
4-1	10051696	Bushing		1	
4-2	10051697	Bushing		1	
5	10008075	Oil Wick		1	
6-1	10051694	Bushing		1	
6-2	10051695	Bushing		1	
7	10011616	Needle Bar Bracket		1	
8	10042412	Screw (M4×10)		1	
9		Needle Clamp		1	
10	10009255	Screw (SM1/8"×44)		4	
11	10011349	Thread Retainer Disc Support		1	
12	10011345	Needle Thread Retainer Disc		1	
13	10011338	Spring		1	
14	10011348	Screw (SM1/8"×44)		1	
15	10011627	Top Cover Thread Eyelet		1	
16	10004902	Needle		3	
17	10013017	Counterweight		1	
18	10011582	Screw (SM5/16"×24)		2	
19	10010953	Screw (M5×10)		1	
20	10011622	Washer		1	
21	10011629	Connecting Rod		1	
22	10007397	Roller Bearing		1	
23	10011175	Seal Plug		1	
24	10008066	Oil Wick		1	
25	10011169	Pin		1	
26	10011619	Needle Bar Guide		1	
27	10009103	Screw (M4×16)		2	
28	10011340	Slide Block		1	
29	10011165	Pin		1	
30	10009074	Screw (M4×4)		1	
31	10011173	Connecting Rod Cover (Rear)		1	
32	10013040	Screw (M3×6)		2	
33	10011581	Connecting Rod Cover (Front)		1	
34	10010837	Screw (M4×5)		1	

### 7. MAIN SHAFT DRIVING MECHANISM (1/2)

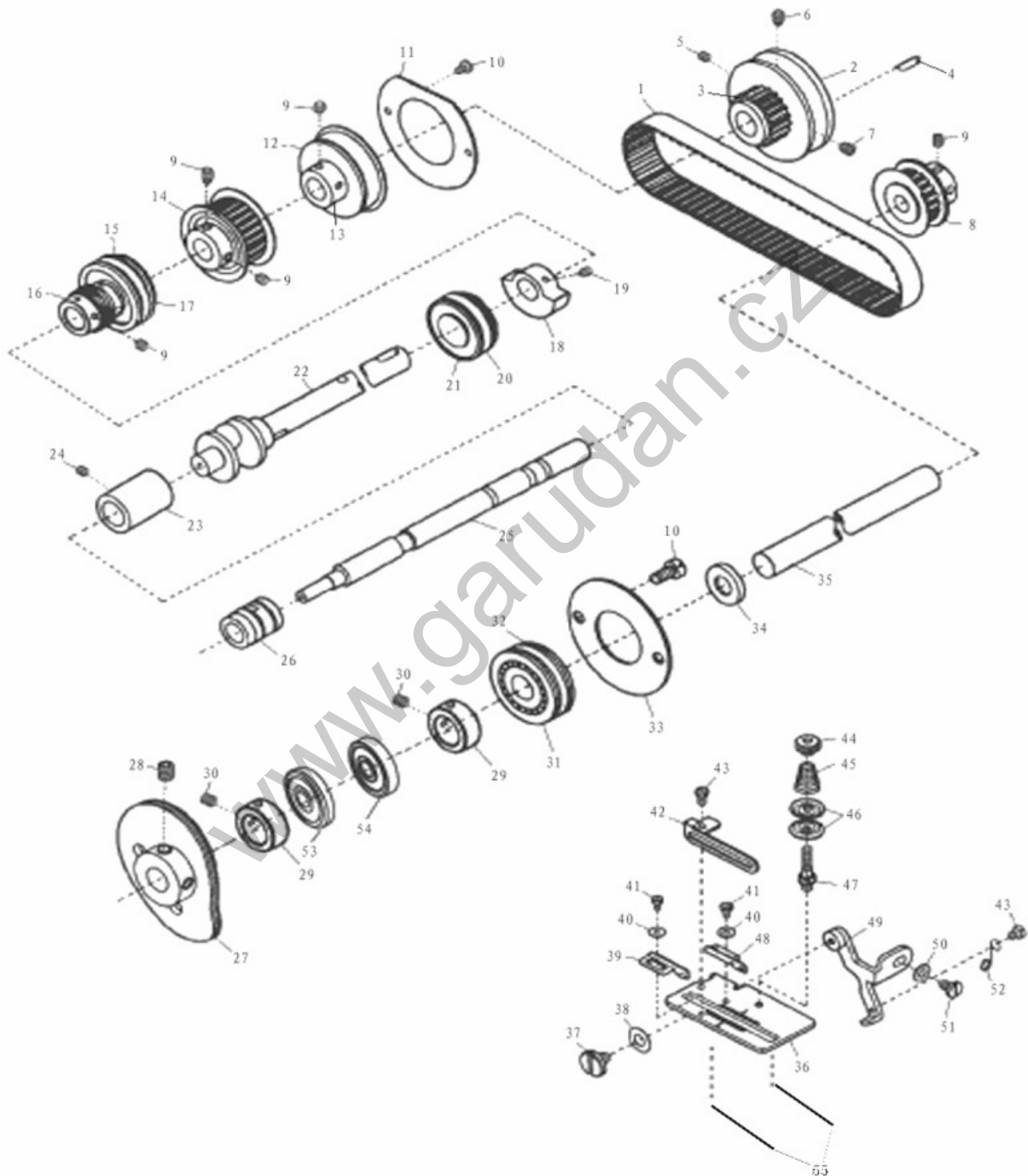




### 7. MAIN SHAFT DRIVING MECHANISM (1/2)

Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10008124	Timing Belt		1	
2	10012826	Pulley		1	
3	10012827	Looper Thread Take-up Driving Sprocket		1	
4	10003475	Pin		1	
5	10009187	Screw (M6×8)		2	
6	10012828	Screw (M6×5)		1	
7	10012865	Screw (M6×4.5)		1	
8	10014361	Looper Thread Take-up Shaft Sprocket		1	
9	10011969	Screw (M6×5)		10	
10	10014441	Screw (M4×6)		4	
11	10014444	Rear Cover		1	
12	10025862	Ball Bearing		1	
13	10012034	Ball Bearing Adapter		1	
14	10012834	Looper Thread Take-up Driving Sprocket		1	
15	10025876	Ball Bearing		1	
16	10011968	Oil Pump Driving Worm		1	
17	10011923	Seal Ring		2	
18	10010955	Counterweight		1	
19	10009074	Screw (M4×4)		2	
20	10011805	Seal Ring		2	
21	10025877	Ball Bearing		1	
22	10014435	Lower Crank shaft		1	
23	10012862	Lower Shaft Joint		1	
24	10012859	Screw (M5×3)		4	
25	10023334	Lower Shaft		1	
26	10012407	Bushing		1	
27	10010475	Looper Thread Take-up		1	
28	10012162	Screw (M5×5)		2	
29	10014442	Collar		2	
30	10014381	Screw (M5×2.6)		4	
31	10025875	Ball Bearing		1	
32	10014436	Seal Ring		2	
33	10014465	Ball Bearing Cover		1	
34	10014440	Washer		1	
35	10014434	Looper Thread Take-up Shaft		1	
36	10014417	Thread Take-up Eyelet Holder		1	
37	10014411	Screw (M4)		1	
38	10009470	Washer		1	

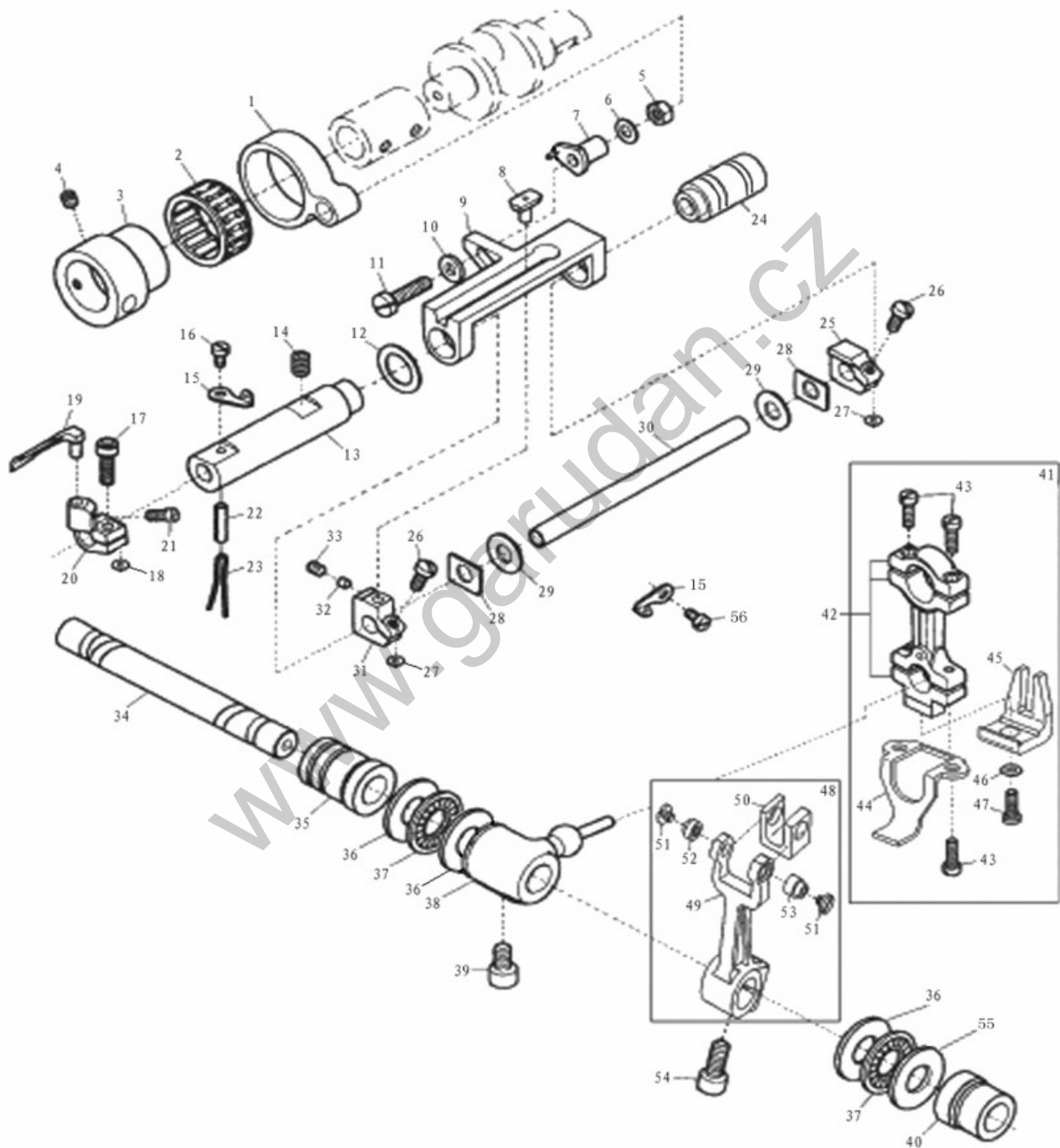
## 7. MAIN SHAFT DRIVING MECHANISM (2/2)



**7. MAIN SHAFT DRIVING MECHANISM (2/2)**

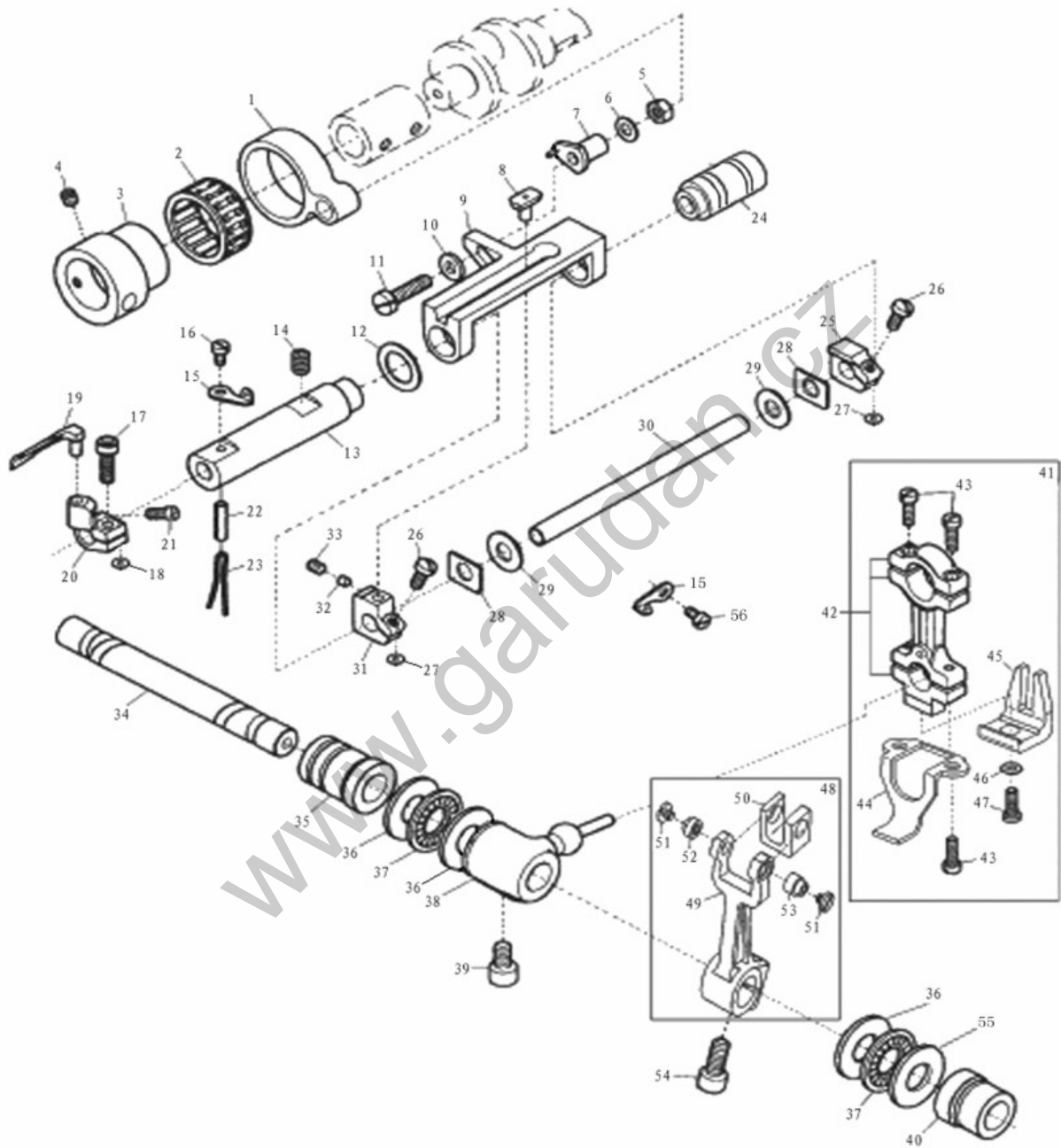
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
39	10003123	Thread Take-up Eyelet (Left)		1	
40	10003123	Washer		2	
41	10014413	Screw (M2.5×4)		2	
42	10014414	Looper Thread Guide		1	
43	10012728	Screw (M3.5×4)		2	
44	10004865	Nut		1	
45	10004843	Spring		1	
46	10004866	Looper Thread Supplementary Tension Disc		2	
47	10004864	Screw		1	
48	10014412	Thread Take-up Eyelet (Right)		1	
49	10010215	Thread Take-up Eyelet Bracket		1	
50	10010761	Washer		1	
51	10011794	Screw(M4×10)		1	
52	10012868	Spring		1	
53	10025873	Ball Bearing		1	
54	10025872	Ball Bearing		1	
55	10008265			2	

### 8. LOOPER DRIVING MECHANISM (1/2)



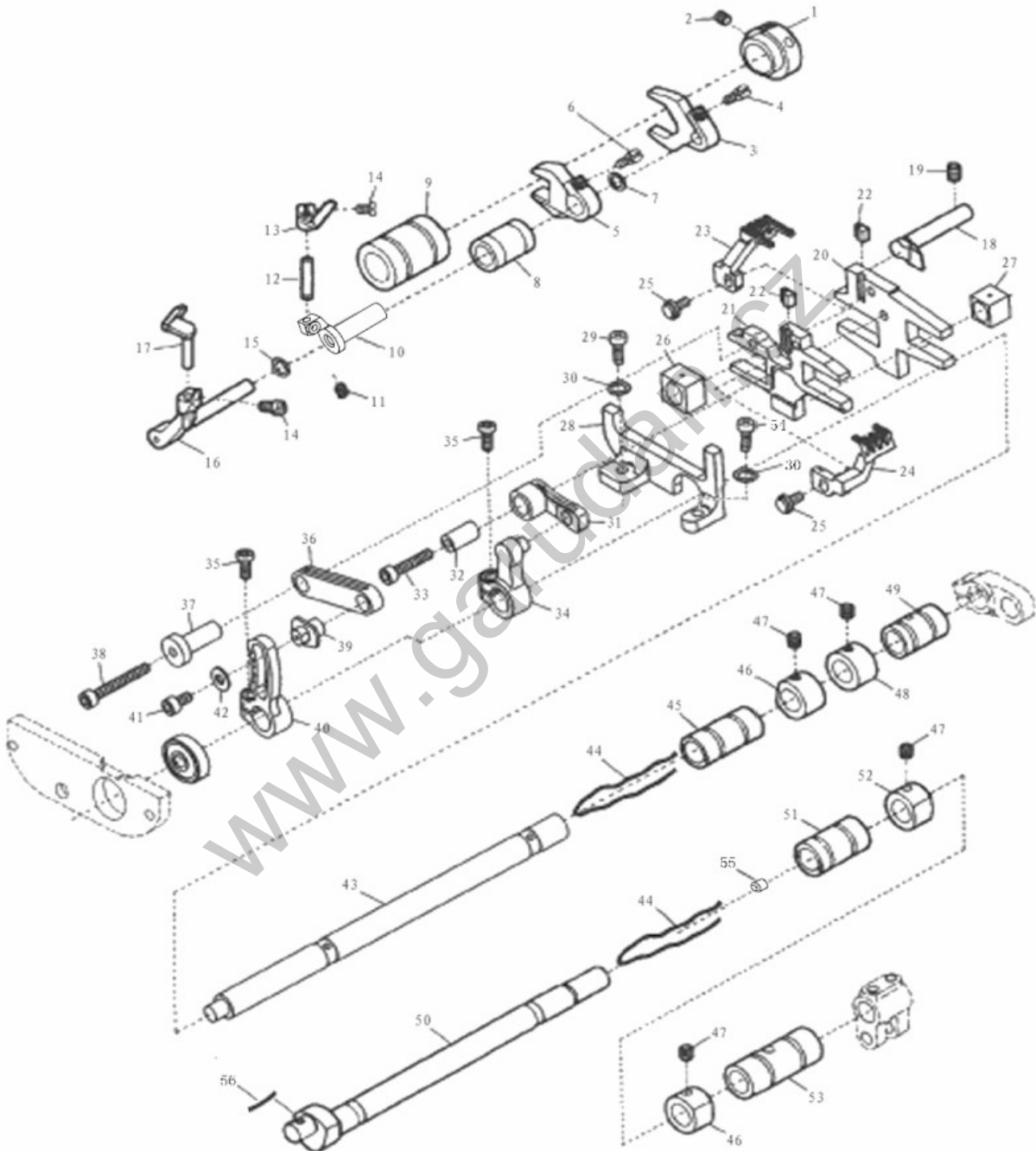
8. LOOPER DRIVING MECHANISM (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10010461	Looper Rocker Connecting Rod		1	
2	10007406	Roller Bearing		1	
3	10014466	Looper Rocker Regulating Eccentric		1	
4	10012162	Screw(M5×5)		2	
5	10009467	Nut		1	
6	10010459	Washer		1	
7	10013842	Looper Rocker Adjusting Pin		1	
8	10012741	Slider		1	
9	10010462	Slider Holder		1	
10	10010466	Washer		1	
11	10010249	Screw(M5×28.2)		1	
12	10012747	Washer		1	
13	10014373	Bushing		1	
14	10009187	Screw(M6×8)		1	
15	10014472	Looper Thread Eyelet		2	
16	10010467	Screw(M3.5×4)		1	
17	10012752	Screw(M4×10)		1	
18	10012756	Washer		1	
19	10012780	Looper		1	
20	10012743	Looper Holder		1	
21	10012032	Screw(M4×7)		1	
22	10002848	Pin		1	
23	10024499	Oil Wick		1	
24	10012406	Bushing		1	
25	10012745	Rocker Arm, Holder		1	
26	10013178	Screw(M4×12)		2	
27	10012756	Washer		2	
28	10012786	Washer		2	
29	10012784	Washer		2	
30	10027629	Looper Bar		1	
31	10014473	Slider Holder		1	
32	10012751	Slider Presser		1	
33	10009074	Screw(M4×4)		1	
34	10014369	Looper Shaft		1	
35	10012411	Bushing		1	
36	10012782	Washer		3	
37	10007849	Roller Bearing		2	
38	10005592	Looper Driving Lever		1	
39	10012024	Screw(M6×15)		1	

### 8. LOOPER DRIVING MECHANISM (2/2)



<b>8. LOOPER DRIVING MECHANISM (2/2)</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
40	10012405	Bushing		1	
41	10005594	Looper Connecting Rod, Complete Set		1	
42	10005591	Looper Connecting Rod		4	
43	10005593	Screw(M4×12)		1	
44	10014437	Oil Splasher		1	
45	10004829	Guide Fork		1	
46	10005537	Washer		1	
47	10009869	Screw(M5×9)		1	
48	10010255	Loop Rocker Arm, Complete Set		1	
49	10004020	Loop Rocker Arm		1	
50	10004029	Slider Block		1	
51	10010217	Screw(M3×3.3)		2	
52	10010248	Pin		1	
53	10010246	Pin		1	
54	10012024	Screw(M6×15)		1	
55	10040918	Washer		1	
56	10002924	Screw		1	

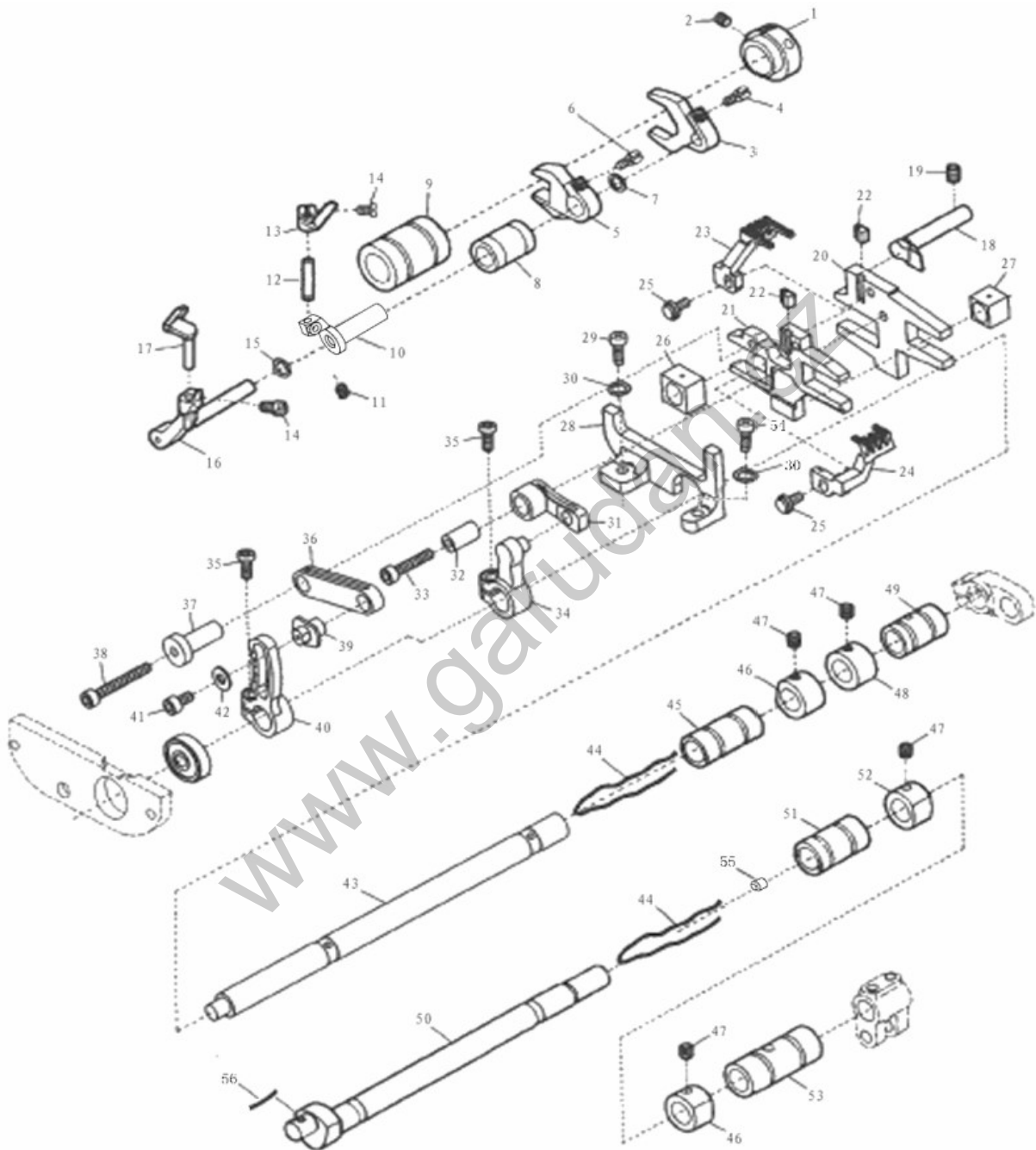
### 9. FEED DRIVING MECHANISM (1/2)





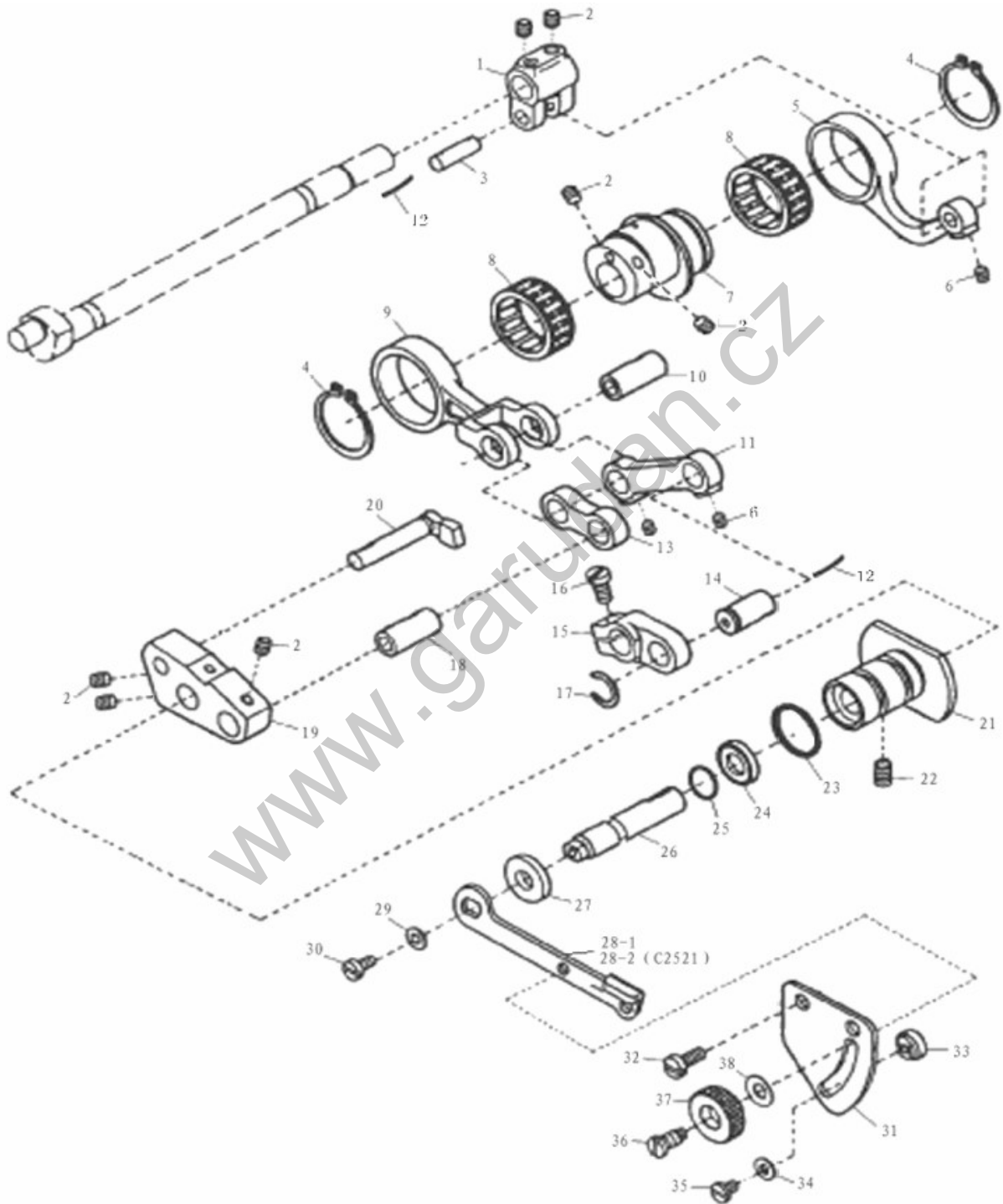
9. FEED DRIVING MECHANISM (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10012772	Needle Guard(Front) Eccentric		1	
2	10012162	Screw(M5×5)		2	
3	10012769	Needle Guard(Rear) Lever		1	
4	10009115	Screw(M3.5×8)		1	
5	10012767	Needle Guard(Front) Lever		1	
6	10012763	Screw(M3.5×12)		1	
7	10012830	Washer		1	
8	10012403	Bushing		1	
9	10012412	Bushing		1	
10	10027637	Needle Guard(Front) Holder		1	
11	10012773	Screw(M3.5×3)		1	
12	10012771	Pin		1	
13	10012832	Needle Guard(Rear)		1	
14	10012738	Screw(M3.5×6.5)		2	
15	10012830	Washer		1	
16	10012736	Needle Guard(Front) Holder		1	
17	10012829	Needle Guard(Front)		1	
18	10012831	Feed Lift Block		1	
19	10009187	Screw(M6×8)		1	
20	10005171	Main Feed Bar		1	
21	10004013	Differential Feed Bar		1	
22	10005866	Feed Dog Key		2	
23		Main Feed Dog		1	
24		Differential Feed Dog		1	
25	10011733	Screw(SM9/64"×40)		2	
26	10012864	Feed Lift Block(Front)		1	
27	10012690	Feed Lift Block(Rear)		1	
28	10010212	Feed Bar Guide		1	
29	10009103	Screw(M4×16)		1	
30	10002954	Washer		2	
31	10010247	Main Feed Bar Driving Connection		1	
32	10010213	Pin		1	
33	10010214	Screw(M4×19)		1	
34	10010251	Main Feed Rocker Lever		1	
35	10012752	Screw(M4×10)		2	
36	10010250	Differential Feed Bar Driving Connection		1	
37	10010253	Pin		1	
38	10010216	Screw(M4×28)		1	
39	10010252	Differential Feed Adjusting Pin		1	

## 9. FEED DRIVING MECHANISM (2/2)



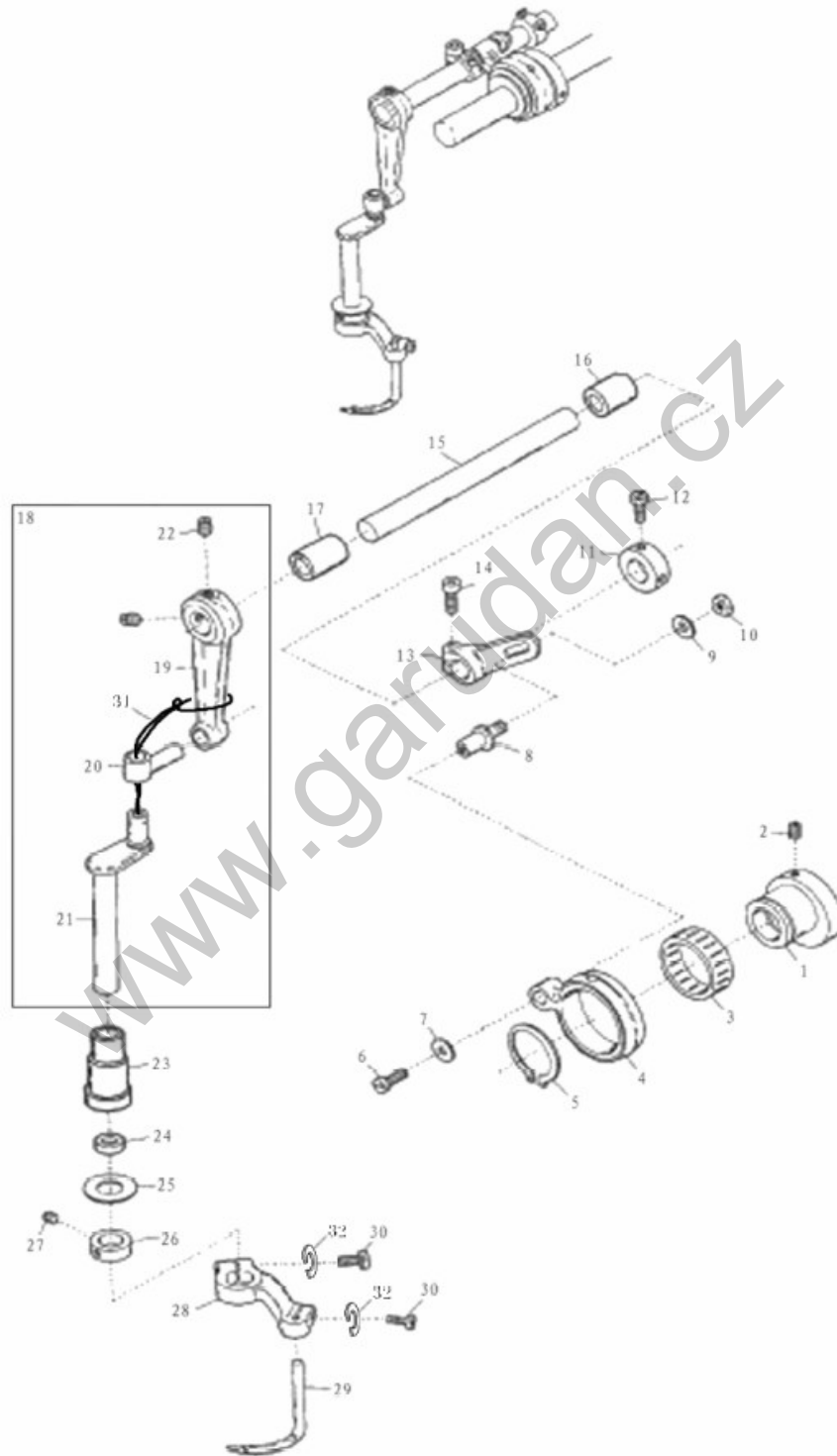
9. FEED DRIVING MECHANISM (2/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
40	10010254	Differential Feed Rocker Lever		1	
41	10012553	Screw (M4x8)		1	
42	10011055	Washer		1	
43	10012252	Feed Rocker Shaft		1	
44	10008066	Oil Wick		2	
45	10012404	Bushing		1	
46	10012691	Collar		2	
47	10012014	Screw (M5x4)		4	
48	10012693	Collar		1	
49	10012410	Bushing		1	
50	10005887	Feed Lift Shaft		1	
51	10012508	Bushing		1	
52	10012643	Collar		1	
53	10012408	Bushing		1	
54	10014395	Screw (M4x14)		1	
55	10005867			1	
56	10008074	Oil Wick		1	

### 10. FEED DRIVING CONTROL MECHANISM



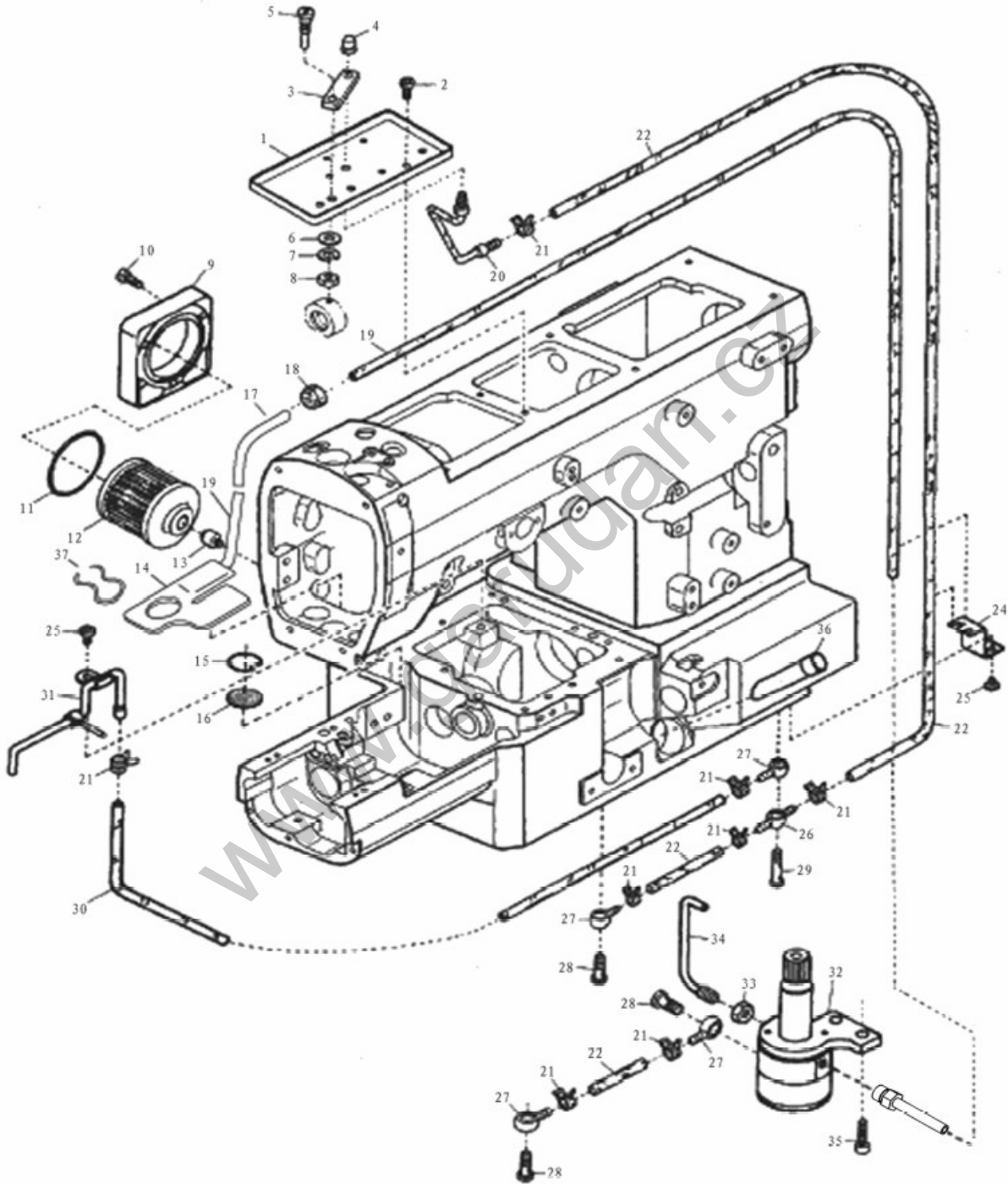
10. FEED DRIVING CONTROL MECHANISM					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10012792	Feed Lift Lever		1	
2	10012162	Screw (M5×5)		7	
3	10012781	Pin		1	
4	10003238	Collar		2	
5	10012789	Feed Lift Connecting Rod		1	
6	10009074	Screw (M4×4)		3	
7	10012791	Feed Eccentric		1	
8	10007371	Roller Bearing		2	
9	10012788	Feed Connecting Rod		1	
10	10012481	Pin		1	
11	10012783	Lever Link		1	
12	10008069			2	
13	10012779	Lever Link		1	
14	10012515	Lever Link Pin		1	
15	10012790	Feed Shaft Lever		1	
16	10012793	Screw (M5×10)		1	
17	10012519	Collar		1	
18	10012481	Pin		1	
19	10012518	Control Bracket		1	
20	10012521	Connecting Rod Guide		1	
21	10012333	Control Lever Shaft Bushing		1	
22	10009187	Screw (M6×8)		1	
23	10012513	O-Ring		1	
24	10014443	Oil Seal		1	
25	10009608	O-Ring		1	
26	10010532	Control Lever Shaft		1	
27	10012487	Washer		1	
28-1	10010498	Feed Connecting Lever		1	
28-2	10009714	Feed Connecting Lever		1	
29	10010111	Washer		1	
30	10010594	Screw (M4×7.5)		1	
31	10010501	Feed Graduation		1	
32	10012480	Screw (M4×12.5)		2	
33	10012516	Nut		1	
34	10011653	Washer		1	
35	10014441	Screw (M4×6)		1	
36	10010856	Screw		1	
37	10010491	Nut		1	
38	10010861	Washer		1	

## 11. SPREADER MECHANISM



11. SPREADER MECHANISM					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10011074	Eccentric		1	
2	10012162	Screw (M5×5)		2	
3	10007400	Roller Bearing		1	
4	10011071	Connecting Rod		1	
5	10007935	Collar		1	
6	10011005	Screw (M4×9)		1	
7	10011055	Washer		1	
8	10011053	Pin		1	
9	10012393	Washer		1	
10	10003084	Nut		1	
11	10013016	Collar		1	
12	10013015	Screw (SM11/64"×40)		1	
13	10011073	Adjusting Lever		1	
14	10009008	Screw (M6×16)		1	
15	10011658	Driving Shaft		1	
16	10011116	Bushing		1	
17	10011106	Bushing		1	
18	10007588	Needle Bar Rocking Arm, Complete Set		1	
19	10011666	Rocking Arm		1	
20	10011651	Rocking Pin		1	
21	10011656	Spreader Bar		1	
22	10010907	Screw (M6×6)		2	
23	10011110	Bushing		1	
24	10011657	Oil Seal		1	
25	10011665	Washer		1	
26	10011722	Collar		1	
27	10011887	Screw (SM9/64"×40)		2	
28	10011659	Spreader Holder		1	
29	10011662	Spreader		1	
30	10009037	Screw (M4×12)		2	
31	10008069			1	
32	10012756	Washer		2	

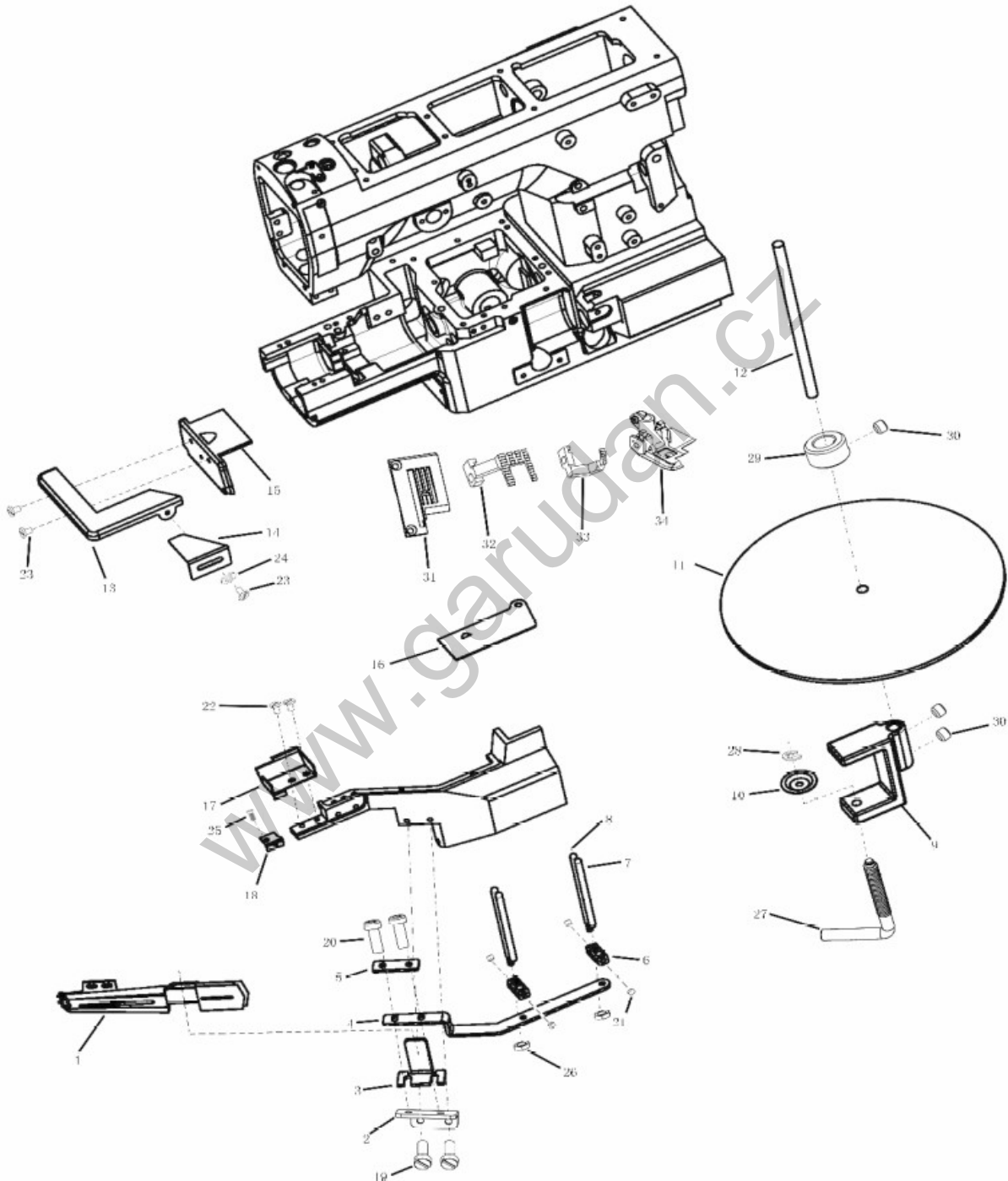
## 12. LUBRICATION





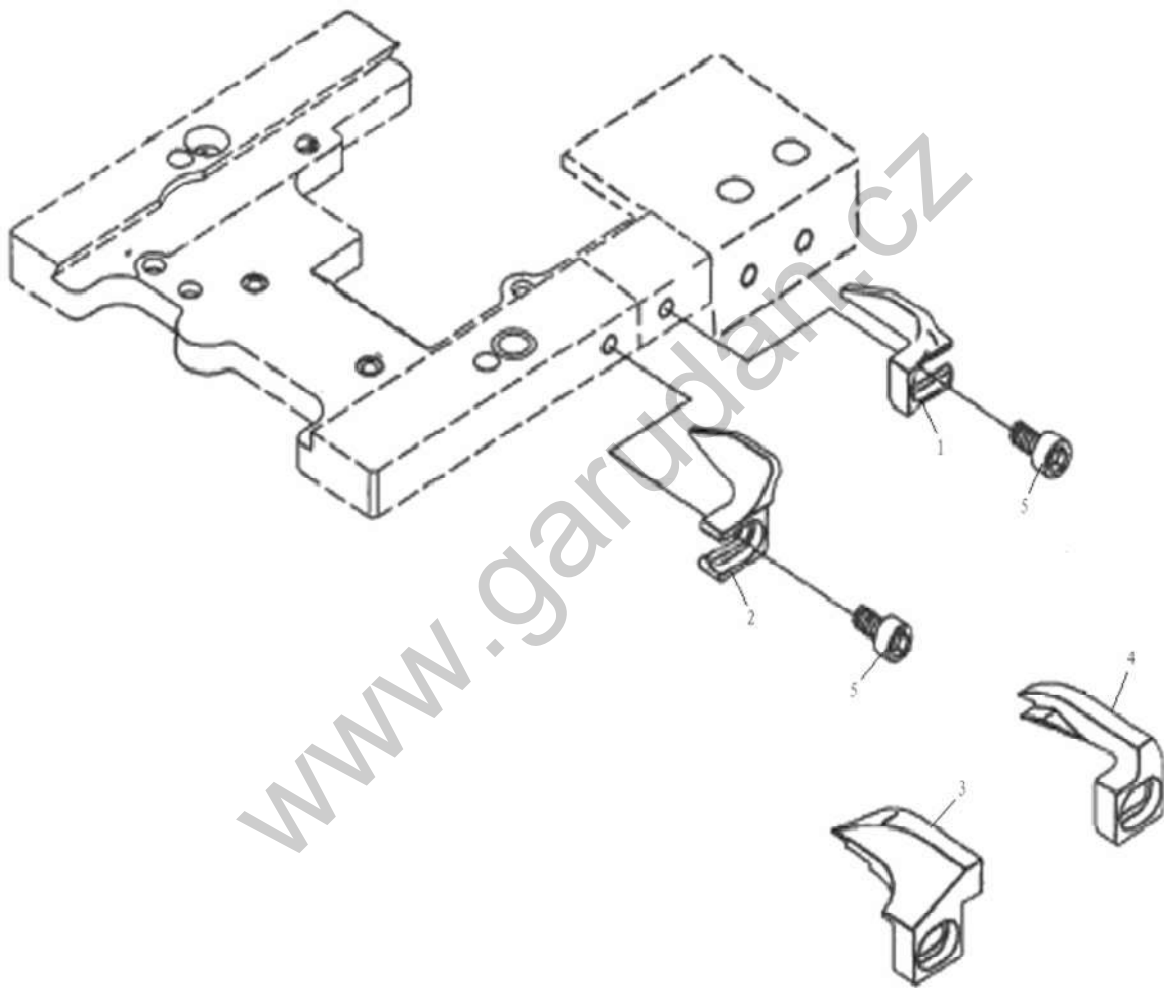
12. LUBRICATION					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10011465	Oil Receiver		1	
2	10010837	Screw (M4×5)		2	
3	10011468	Lubricant Guiding Block		1	
4	10011467	Top Nozzle		1	
5	10011464	Screw (M5)		1	
6	10011653	Washer		1	
7	10005537	Washer		1	
8	10009467	Nut		1	
9	20003647	Oil Filter Cap		1	
10	10012710	Screw (M4×14)		3	
11	10003793	O-Ring		1	
12	10043169	Oil Filter		1	
13	10012104	Screw (M10×7)		1	
14	10012328	Felt		1	
15	10003280	Collar		1	
16	10010777	Oil Filter Screen		1	
17	10012331	Suction Pipe		1	
18	10012092	Seal Plug		1	
19	10007795	Oil Tube		1	
20	10011461	Oil Pipe Unit		1	
21	10011471	Oil Tube Clam		8	
22	10007796	Oil Tube		1	
24	10012808	Oil Tube Stay		1	
25	10014441	Screw (M4×6)		3	
26	10012095	Oil Tube Joint, Two Way		1	
27	10012103	Oil Tube Joint, One Way		4	
28	10042329	Screw (SM1/4"×40)		3	
29	10012102	Screw (SM1/4"×40)		1	
30	10007796	Oil Tube		1	
31	10012805	Lower Shaft Oiling Shower		1	
32	10007770	Oil Pump		1	
33	10012088	Nut		1	
34	10011460	Oil Nozzle For Worm Gear		1	
35	10011313	Screw (M6×12)		2	
36	10012871	Oil Sight Gauge Oil Receiver		1	
37	10012332	Felt Clam		1	
38	10014067			1	

### 13. SUBMODEL EXCLUSIVE PARTS



13. SUBMODEL EXCLUSIVE PARTS					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10012842	Folder		1	
2	10012847			1	
3	10012844	Folder Support		1	
4	10012878	Tape Guide Holder		1	
5	10012848	Folder Disc		1	
6	10011483	Tape Guide Adjusting Holder		2	
7	10011544	Pin		2	
8	10011549	Screw (M5x11)		2	
9	20003875			1	
10	10011865			1	
11	10011909			1	
12	10011903			1	
13	10012306			1	
14	10012845			1	
15	10010043			1	
16	10010500			1	
17	10012846			1	
18	10010481			1	
19	10002963	Screw (M4x10)		2	
20	10012073	Screw (M4x10)		2	
21	10012014	Screw (M5x4)		4	
22	10014441	Screw (M4x6)		2	
23	10012723	Screw (M4x5)		3	
24	10003083			1	
25	10012730	Screw (M3x5.6)		1	
26	10009469			2	
27	10011866	Screw		1	
28	10009653			1	
29	10011902			1	
30	10011969	Screw (M6x5)		3	

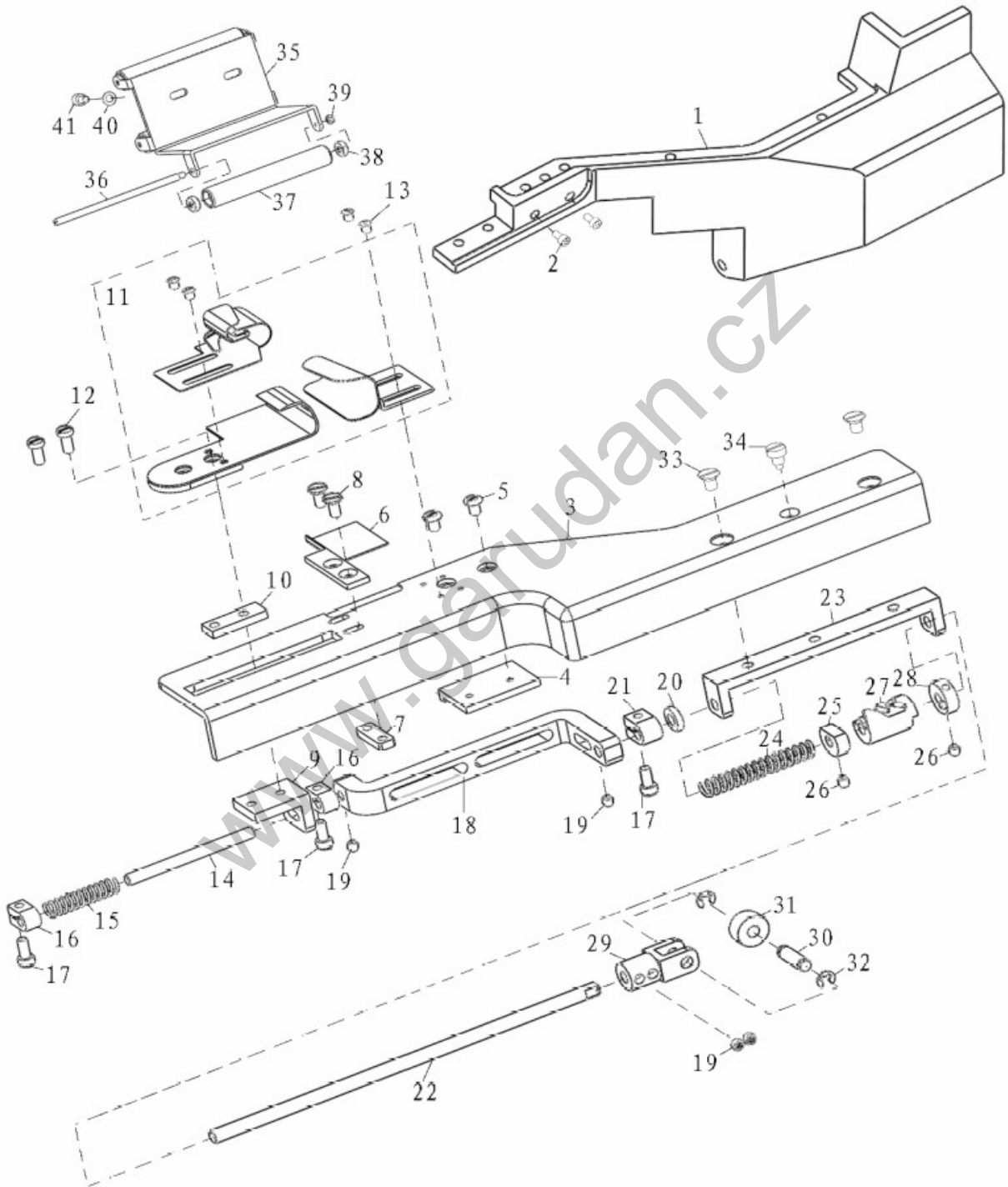
### 14. SEAMS COVERING SEWING MACHINE EXCLUSIVE PARTS



<b>14. SEAMS COVERING SEWING MACHINE EXCLUSIVE PARTS</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
1	10014426	Leading Right Block		1	
2	10014449	Leading Left Block		1	
3	10014425	Direction Right Black		1	
4	10014448	Direction Left Black		1	
5	10002975	Screw (M3×6)		2	

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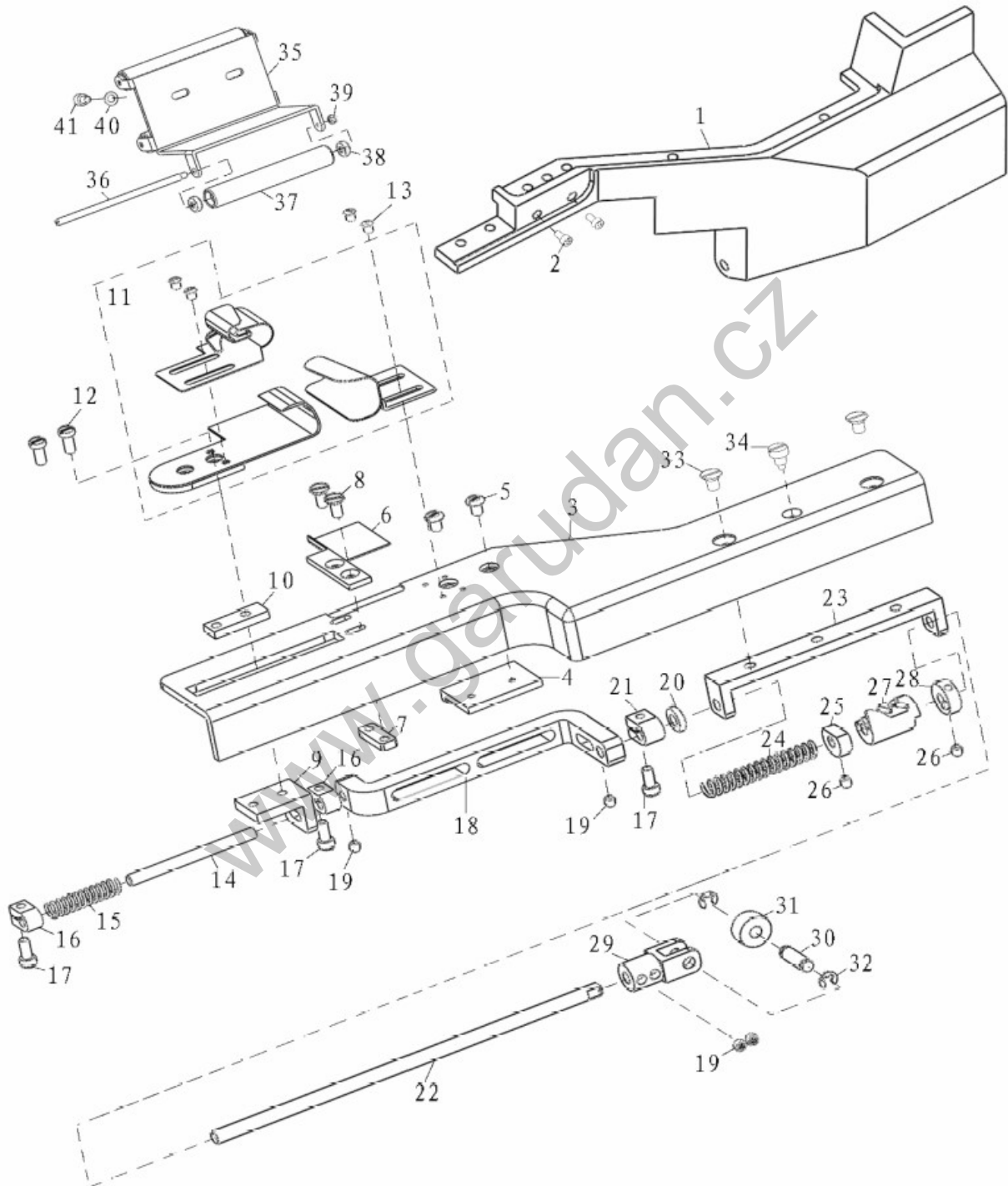
### 15. URETHANE STITCH EXCLUSIVE PARTS 1 (1/2)



**15. URETHANE STITCH EXCLUSIVE PARTS 1 (1/2)**

Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	20003621	Front Cover		1	
2	10003102	Screw (M4x12)		2	
3	10012568	Swat		1	
4	10012560	Installation seat		1	
5	10014474	Screw(SM11/64"x40)		2	
6	10014475	Block cloth board		1	
7	10014455	Nut		1	
8	10014458	Screw (M4x12)		2	
9	10014457	Slider seat		1	
10	10014451	slider		1	
11	10025049	Bag seam board groupware		1	
12	10011798	Screw (M4x10)		2	
13	10014454	Screw (M3.5x4)		2	
14	10012561	Short plunger		1	
15	10012566	Spring		1	
16	10012559	Short plunger orientation block		2	
17	10012752	Screw (M4x10)		3	
18	10012565	Link rod		1	
19	10012014	Screw (M5x4)		4	
20	10012523	Washer		1	
21	10012564	Long plunger orientation block		1	
22	10012522	long plunger		1	
23	10012558	Orientation block		1	
24	10012562	Spring		1	
25	10012567	Block circle		1	
26	10011802	Screw (SM11/64"x40)		4	
27	10012557	Locator		1	
28	10012563	Right tight circles components		1	
29	10014450	Plunger head		1	
30	10012802	Top axle		1	
31	10014456	Crown chakra		1	
32	10009653	Block circle		2	
33	10014453	Screw (M5x8.7)		2	
34	10014476	Screw		1	
35	20003677	Oceangoing seat		1	
36	10012656	Of cloth axle		3	
37	10012650	Of cloth round		3	
38	10003575	Bearing		6	

### 15. URETHANE STITCH EXCLUSIVE PARTS 1 (2/2)





**15. URETHANE STITCH EXCLUSIVE PARTS 1 (2/2)**

<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
39	10012658	Nut		3	
40	10004936	Washer		2	
41	10003105	Screw (M6×8)		2	

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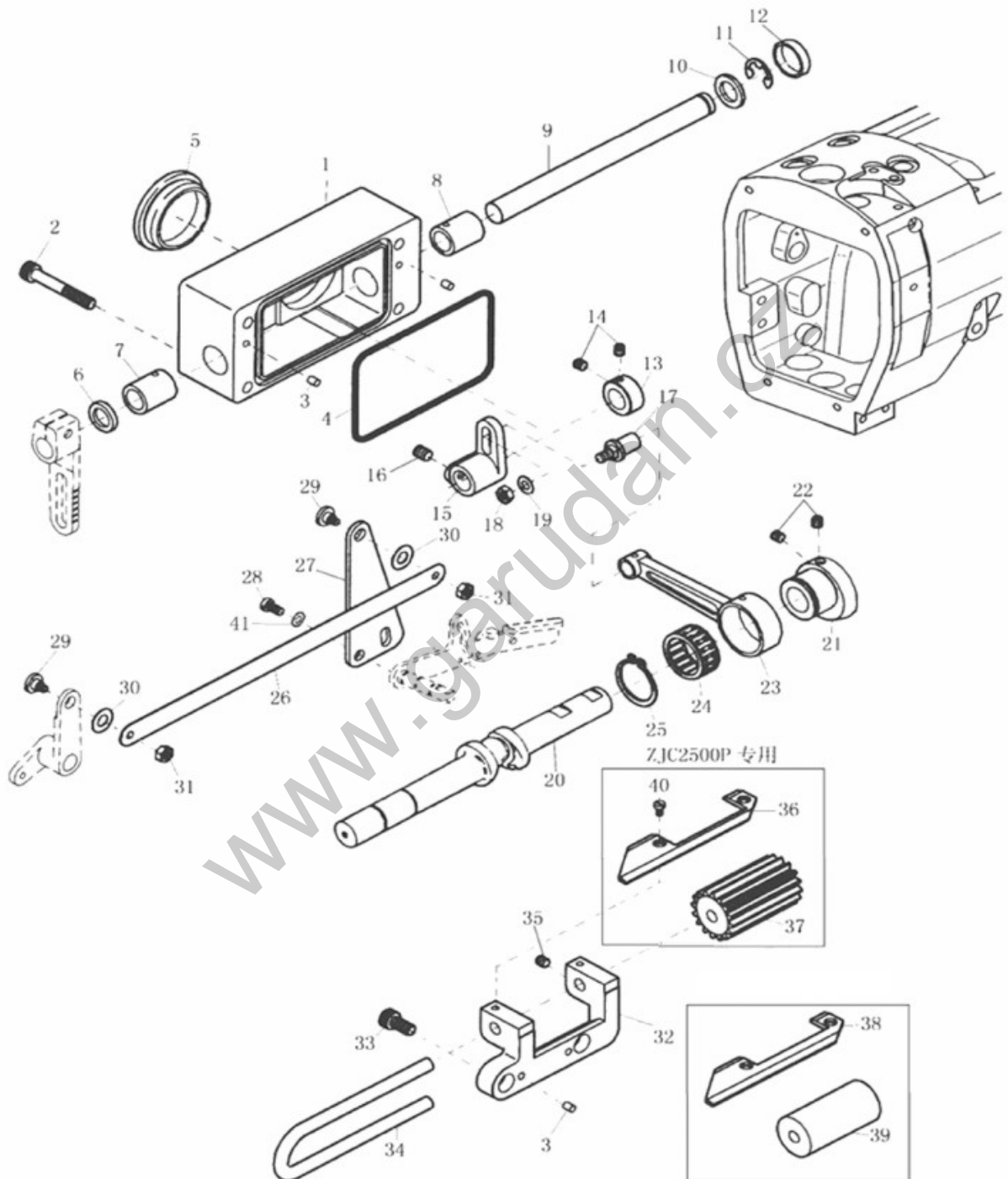


16. URETHANE STITCH EXCLUSIVE PARTS 2					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
5	10002994	Nut		3	
9	20003680	Front cloth wheel bearings		1	
10	10003790	Screw (M6x55)		3	
11	10004936	Washer		6	
12	20001519	Front cloth wheel set pieces		1	
13	10012602	Front seat		1	
14	10012605	Nut		3	
15	10025874	Bearing		6	
16	10012604	Front cloth round		3	
17	10003277	Block circle		3	
18	10012655	Former axle		3	
19	20001526	Front wheel clamping device		1	
20	10012651	Front wheel clamping block		1	
21	10012652	Washer		2	
22	10012657	Nut		2	
23	10012649	Clamping handle		4	
24	10012014	Screw (M5x4)		4	
25	20001527	After cloth wheelset pieces		1	
26	10012648	After stent cloth round		1	
27	10009008	Screw (M6x16)		2	
28	10012603	Rear seat		1	
29	10012653	Rear clamping block		1	
30	20001528	Front wheel installed base		1	
31	10012711	Connect stem		1	
32	10012700	Fixed block		2	
33	10012712	Screw		2	
34	10003181	Screw		4	
35	10013939	Joystick components		1	
36	10008323	Screw		2	



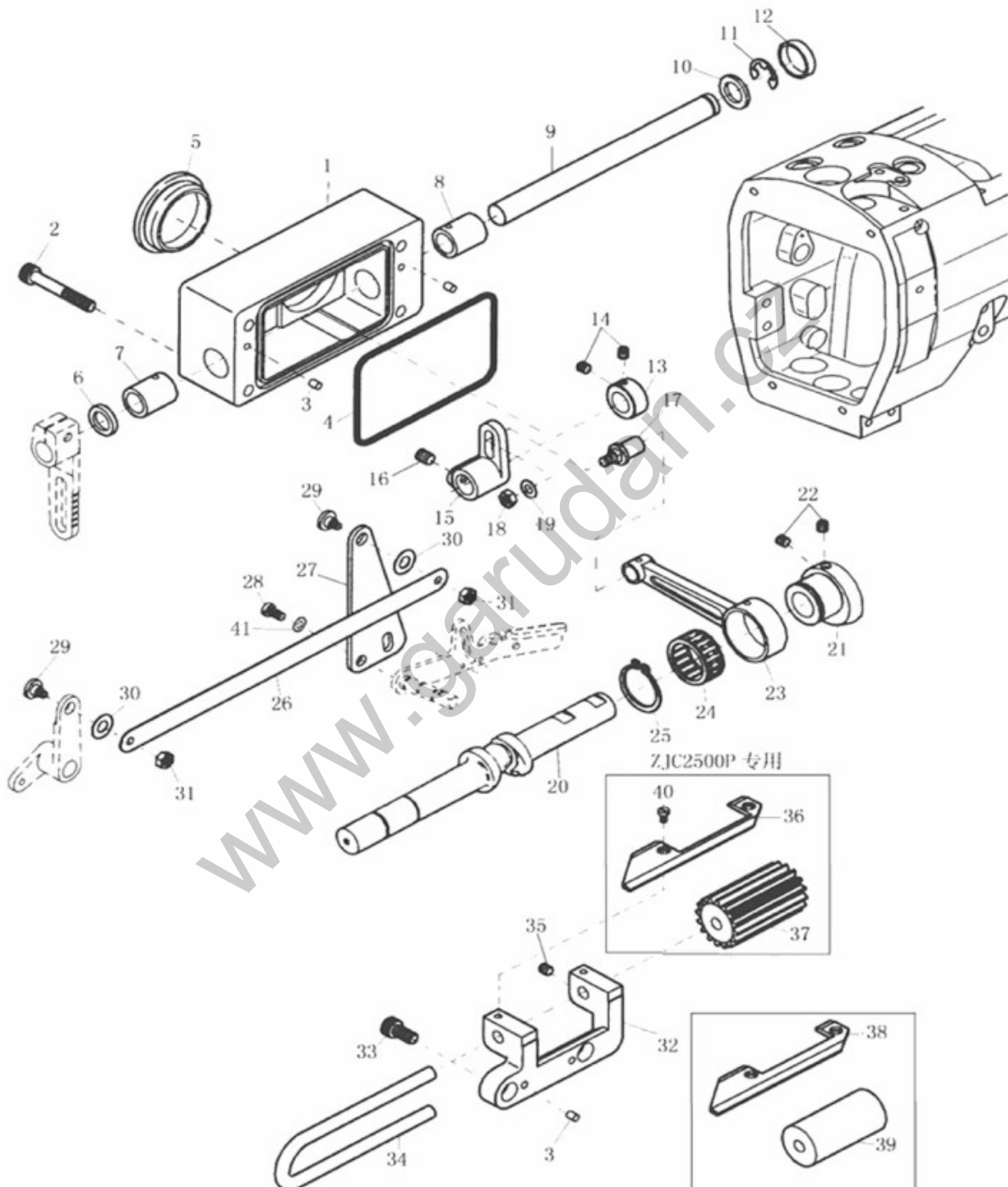
17. DIRECTLY DRIVING TYPE EXCLUSIVE PARTS					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10012316	Looper Thread Take-up Shaft		1	
2	10012370	Looper Thread Take-up Shaft Sprocker		1	
3	10003277	Collar		1	
4	20003761	Bearing Cover		1	
5	10009556	Screw (M4×7)		3	
6	10012307	Looper Thread Take-up Driving Sprocker		1	
7	10012315	Looper Thread Take-up Shaft Sprocker		1	
8	10003439	Ball Bearing		1	
9	10037026	Directly Driving Type Mini-Servo Motor		1	
10	10043235	Screw (M5×17)		3	
13	10012174	Mini-Servo Motor Cover		1	
14	10042412	Screw (M4×10)		3	
15	20003760	Front Cover		1	
16	10052299	Screw (M4×6.5)		6	
17-1	10038109	Control Box		1	
17-2	10037004	Control Box		1	

### 18. UPPER FEED ROLLER EXCLUSIVE (1/2)



18. UPPER FEED ROLLER EXCLUSIVE (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	20003688	Upper Feed Roller Shaft Bracket		1	
2	10010233	Screw (M6×41)		4	
3	10012319	Pin		4	
4	10010276	Gasket		1	
5	10010266	Seal Plug		1	
6	10010577	Oil Seal		1	
7	10010574	Bushing		1	
8	10010572	Bushing		1	
9	10010275	Upper Feed Roller Shaft		1	
10	10010265	Washer		1	
11	10003281	Retaining Ring		1	
12	10011186	Oil Seal		1	
13	10011284	Collar		1	
14	10012014	Screw (M5×4)		2	
15	10010571	Upper Feed Roller Shaft Lever		1	
16	10009187	Screw (M6×8)		2	
17	10010576	Pin		1	
18	10009467	Nut		1	
19	10003073	Washer		1	
20	10004038	Upper Crankshaft		1	
21	10010232	Upper Feed Roller Eccentric		1	
22	10012162	Screw (M5×5)		2	
23	10010195	Upper Feed Roller Lever Rod			
24	10021300	Bearing			
25	10003238	Retaining Ring			
26	10010219	Lifter Connecting Plat			
27	10010230	Upper Feed Roller Lifter			
28	10009556	Screw (M4×7)		2	
29	10010223	Screw (M4×3.3)		2	
30	10010231	Washer		2	
31	10009471	Nut		2	
32	20003721	Feed Roller Yok		1	
33	10003402	Screw (M6×10)		2	
34	10010228	Feed Roller Shaft		1	
35	10012162	Screw (M5×5)		2	
36	10012323	Plate(B)		1	
37	10014198	Feed Roller (B)		1	
38	10012330	Plate (A)		1	
39	10012327	Feed Roller (A)		1	

### 18. UPPER FEED ROLLER EXCLUSIVE (2/2)

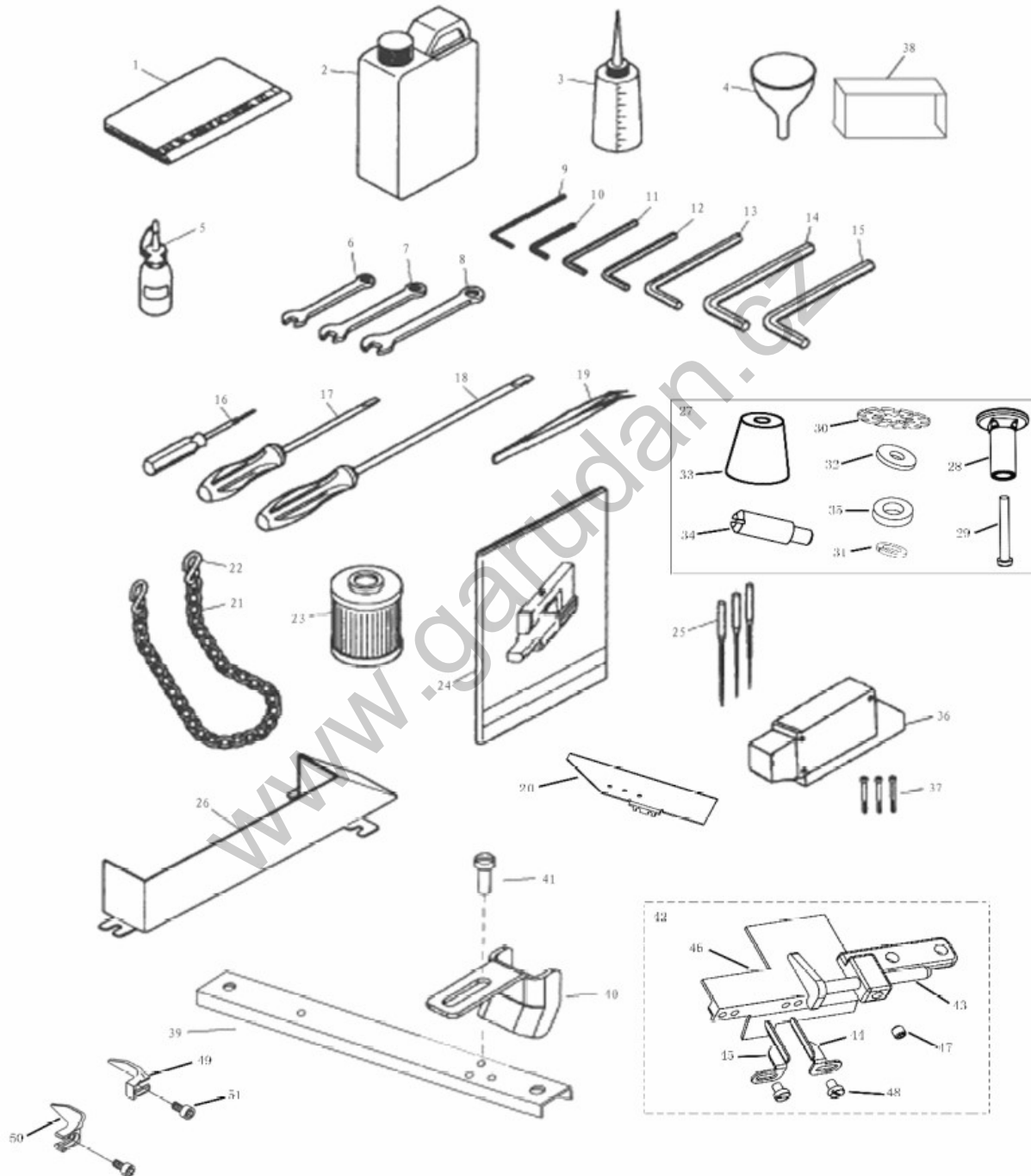




<b>18. UPPER FEED ROLLER EXCLUSIVE (2/2)</b>					
<b>Ref.No</b>	<b>Parts No.</b>	<b>Name of parts</b>	<b>Description</b>	<b>Qty</b>	<b>Note</b>
40	10009600	Screw (M3×6)		2	
41	10003083	Washer		2	

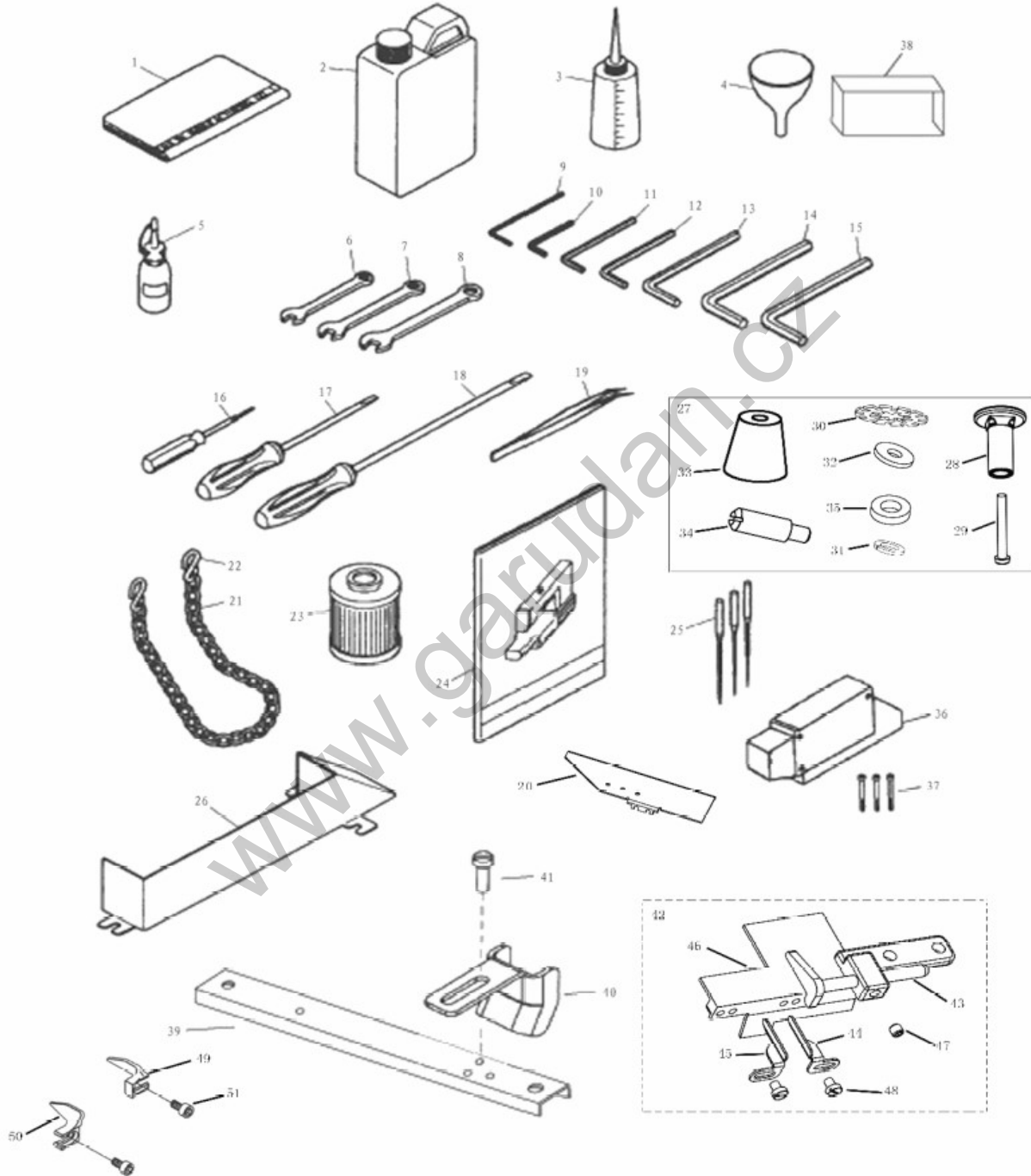
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### 19. ATTACHMENT BOX (1/2)



19. ATTACHMENT BOX (1/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10011311	Machine Cover		1	
2	10004882	Jerrican		1	
3	20001784	Oiler		1	
4	10008932	Funnel		1	
5	10011155	HP Oiler		1	
6	10014185	Spanner (6#)		1	
7	10014122	Spanner (7#)		1	
8	10014186	Spanner (8#)		1	
9	10009684	Hexagonal Wrench (1.5#)		1	
10	10009683	Hexagonal Wrench (2#)		1	
11	10009686	Hexagonal Wrench (2.5#)		1	
12	10009685	Hexagonal Wrench (3#)		1	
13	10009687	Hexagonal Wrench (4#)		1	
14	10009689	Hexagonal Wrench (5#)		1	
15	10009688	Hexagonal Wrench (6#)		1	
16	10009270	Hexagonal Screwdriver		1	
17	10014159	Screwdriver		1	
18	10013982	Screwdriver		1	
19	10004247	Thread Tweezers		1	
20	10012313			1	
21	10011360	Chain		1	
22	10014203	Hook		2	
23	10010300	Oil Filter		1	
24	10006138	Explain Boo		1	
25	10050369	Needle (UY128GBS 11#)		3	
26	20003667	Belt Cover		1	
27	20000815			1	
28	10011312			4	
29	10011361			4	
30	10009273			4	
31	10006282			4	
32	10009272			16	
33	10011315			4	
34	10011306			4	
35	10011359			4	
36	10012310	Beef Cover		1	
37	10012685	Screw (M4×47)		3	
38	10004956	Thread Stand		1	
39	20003666	Instead Plate		2	

### 19. ATTACHMENT BOX (2/2)



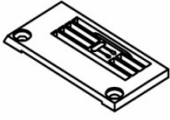
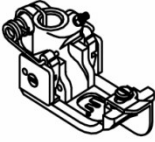

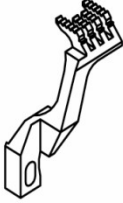

19. ATTACHMENT BOX (2/2)					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
40	10011309	Prevent Chain Plate		1	
41	10012028			2	
42	20011730			1	
43	10032209			1	
44	10032210			1	
45	10032211			1	
46	10032212			1	
47	10002846			1	
48	10011882			2	
49	10014426			1	
50	10014449			1	
51	10002975			2	

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20. THREAD STAND					
Ref.No	Parts No.	Name of parts	Description	Qty	Note
1	10004956	Thread Stand		1	
2	10004282	Column Cop		2	
3	10004293	Column Pipe		1	
4	10004335	Thread Guide Holder		1	
5	10002937	Screw(M4×25)		1	
6	10005297	Nut		2	
7	10002958	Screw(M4×12)		1	
8	10004346	Thread Guide Arm		1	
9	10004334	Thread Guide Holder		1	
10	10002851	Screw(M6×5)		2	
11	10006076	Thread Guide		1	
12	10004286	Column Pipe Connector		1	
13	10003301	Screw(M5×14)		4	
14	10002953	Nut		11	
15	10004291	Column Pipe		1	
16	10004295	Washer		2	
17	10004290	Washer		2	
18	10002985	Nut		1	
19	10006345	Thread Hanger		1	
20	10004289	Thread Guide Pipe		5	
21	10004285	Thread Guide Bushing		5	
22	10003022	Washer		6	
23	10004298	Thread Hanger		1	
24	10006351	Thread Hanger		1	
25	10003312	Screw(M5×30)		2	
26	10004288	Spool Pin		5	
27	10004287	Spool Cushion		5	
28	10004281	Spool Mat		5	
29	10004299	Spool Seat Disc		5	
30	10004284	Thread Hanger		1	

## 21. GAUGE PART LIST

Main Parts						
Needle	m.m	Throat plate	Presser foot asm	Main feed dog	Diff feed dog	Needle clamp
2	4.0	5222TP00401	5220PF00404	5221FD00567 5221DG00211	5221DF00563	5220NC00400
2	4.8	5220TP00484	5220PF00484	5221FD00567 5221DG00211	5221DF00563	5220NC00480
3	5.6	5220TP00564	5220PF00564	5221FD00567 5221DG00211	5221DF00563	5227NC00560
3	6.4	5220TP00642	5220PF00644	5221FD00646 5221DG00221	5221DF00643	5227NC00640



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