

# User's Manual



**GP-110-147**

**GP-124-147**

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## 1 SAFETY

- This machine may only be operated by adequately trained operators and only after having completely read and understood the Instruction Manual!
- This machine may only be used for the purpose for which it is intended and may not be operated without its safety devices. All safety regulations relevant to its operation are to be adhered to.
- When exchanging sewing tools (e.g. needle, roller presser, needle plate and bobbin), when threading the machine, when leaving the machine unattended and during maintenance work, the machine is to be separated from the power supply by switching off the On/Off switch or by removing the plug from the mains!
- Everyday maintenance work is only to be carried out by appropriately trained personnel!
- Repairs and special maintenance work may only be carried out by qualified service staff or appropriately trained personnel!
- Work on electrical equipment may only be carried out by appropriately trained personnel!
- Work is not permitted on parts and equipment which are connected to the power supply.
- Modifications and alterations to the machine may only be carried out under observance of all the relevant safety regulations!
- Only spare parts which have been approved by us are to be used for repairs! We expressly point out that any replacement parts or accessories which are not supplied by us have not been tested and approved by us. The installation and/or use of any such products can lead to negative changes in the structural characteristics of the machine. We are not liable for any damage which may be caused by non-original parts.

## 2 SPECIAL FEATURES AND APPLICATIONS

Single/Double Needle Post-bed Sewing Machine (Thread Trimming, Backstitch Sewing, Presser Foot) is used for shoe manufacturing, It is especially available for sewing on medium heavy weight articles with arc-shaped, such as superior leather shoes, hand bags, gloves, caps etc, it ensures you easy daily maintenance.



Any and all uses of this machine which have not been approved of by the manufacturer are considered to be inappropriate! The manufacturer cannot be held liable for any damage caused by the inappropriate use of the machine! The appropriate use of the machine includes the observance of all operational, adjustment, maintenance and repair measures required by the manufacturer!

### 3 SPECIFICATIONS

Stitch type	DP5X16 (#11-#20)
Max stitch length	7 mm Single Needle, 5mm Double Needle
S.P.M	2000 r/min
Noise data	73db ( $\pm 2.5\text{db}$ )
N.W	70 KG
G.W	76 KG

**Sewing head dimensions:**

Length	615 mm
Width	180 mm
Height (above table)	500 mm
Bedplate dimensions:	518 x 178 mm

### 4 CONTROLS

#### 4.01 CONTROLS ON/OFF SWITCH

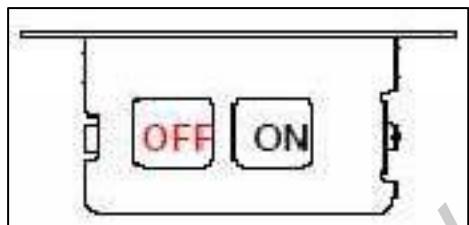


Fig. 1

Through the ON and OFF keys to switch on or off the power

#### 4.02 KEYS ON THE MACHINE HEAD

As long as key 1 is pressed during sewing, the machine sews in reverse. Keys 2 can be used for parameter settings

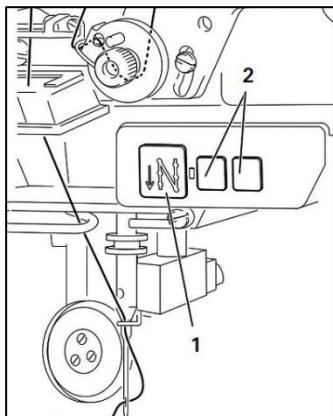
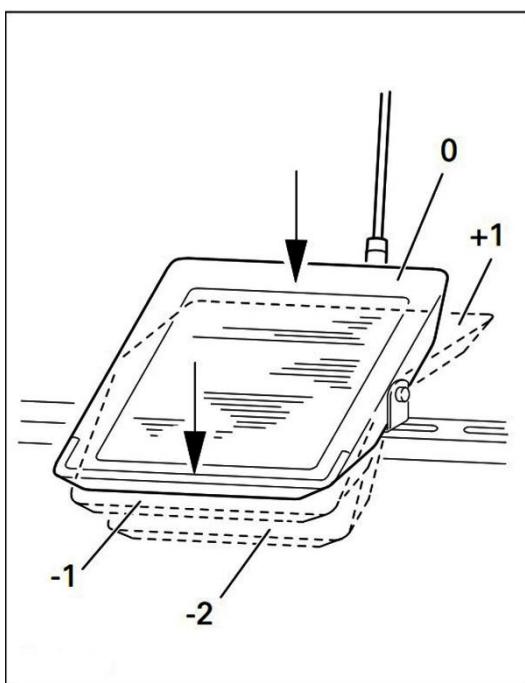


Fig. 2

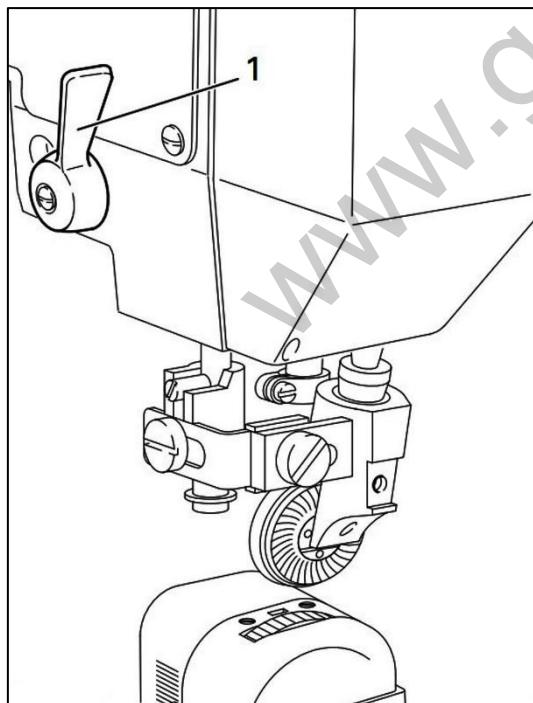
#### 4.03 PEDAL



0 = Neutral position  
+1 = Sewing  
-1 = Raise roller presser  
-2 = Trim sewing threads

Fig. 3

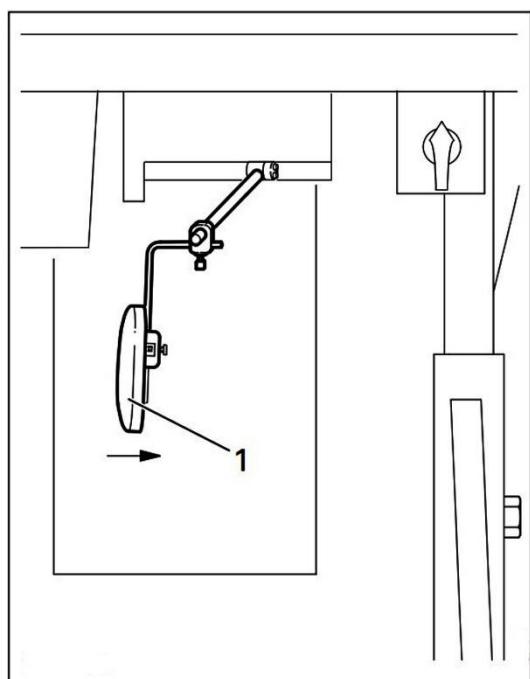
#### 4.04 LEVER FOR LIFTING ROLLER PRESSER



The roller presser can be raised by turning lever 1.

Fig. 4

#### 4.05 KNEE LEVER



The roller presser can be raised by pressing the knee lever 1 in the direction of the arrow.

Fig. 5

#### 4.07 SWING OUT ROLLER PRESSER

When the roller presser is raised, it can be swung out by pulling it lightly down-wards.

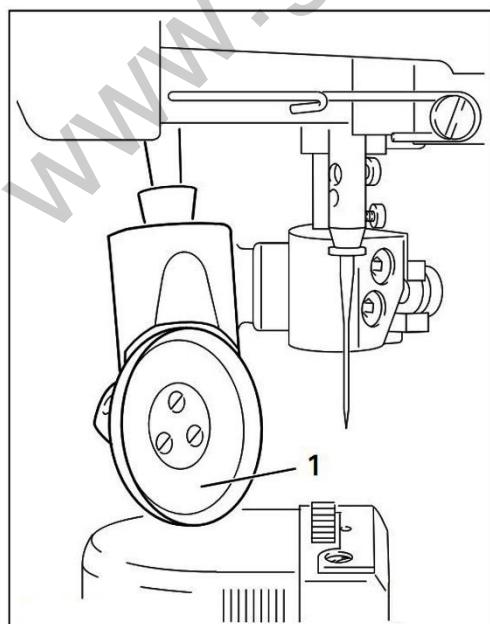
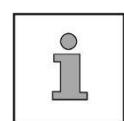


Fig. 6

## 5 INSTALLATION



The method of packaging used requires that the table top be lowered for transport. The following is a description of how to adjust the height of the table top.

### 5.01 ADJUSTING THE TABLE-TOP HEIGHT

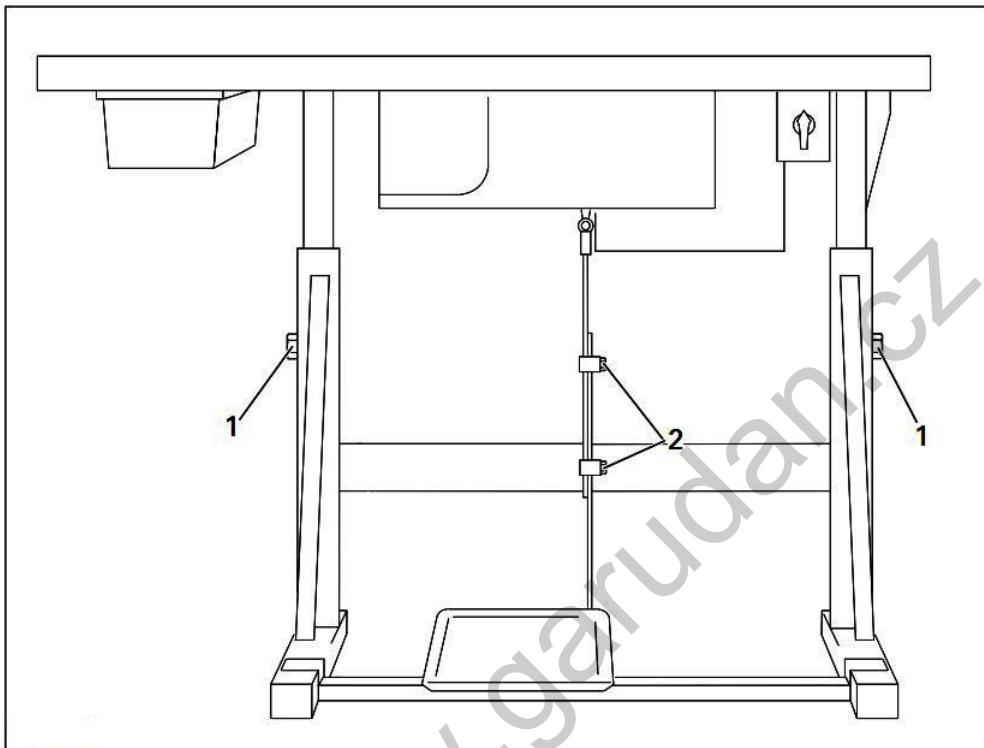


Fig. 7

Loosen screws 1 and 2 and set the desired table-top height

Tighten screws 1 well.

Adjust the position of the pedal so that you can operate it comfortably and tighten screw 2.

## 5.02 FITTING THE REEL STAND

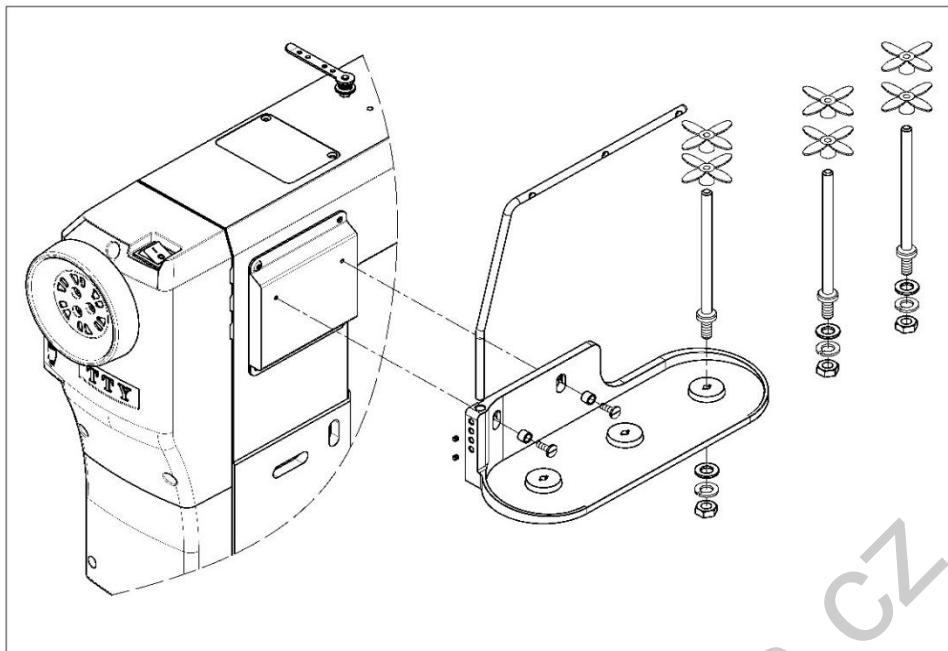


Fig. 8

Fit the reel stand as shown.

## 6 COMMISSIONING

All instructions and regulations in this instruction manual must be observed. Special attention must be paid to all safety regulations!



be carried out by personnel with the appropriate training. For all setting-up work the machine must be disconnected from its power supply by turning off the on/off switch, or removing the plug from the electric power socket.

### 6.01 INSERTING THE NEEDLE

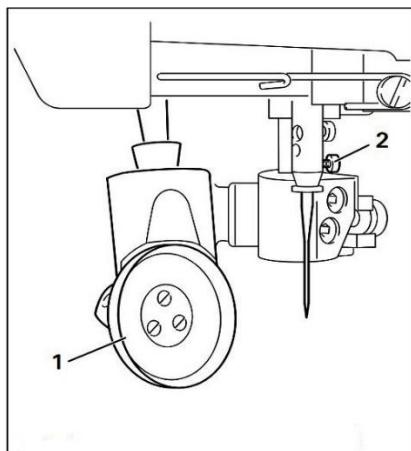


Fig. 9

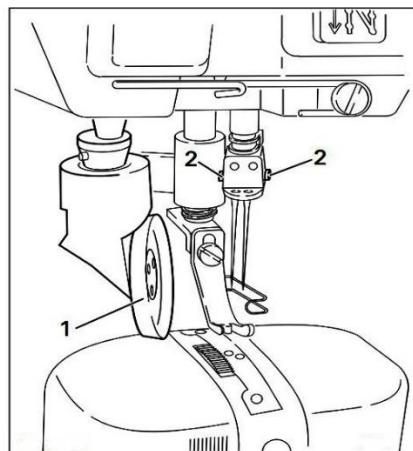


Fig. 10

Switch off the machine!



Danger of injury due to unintentional starting of the machine!

- Raise the roller presser 1 and swing it out.
- Loosen screw 2 and insert the needle as far as possible. The long groove must face to the left (Single Needle).
- Loosen screws 2 and insert the needles as far as possible. the long groove of the left needle is facing right, and that of the right needle is facing left (Double Needle) .
- Tighten screws 2 and swing roller presser 1 back into position.

## 6.02 WINDING THE BOBBIN THREAD, ADJUSTING THE THREAD TENSION

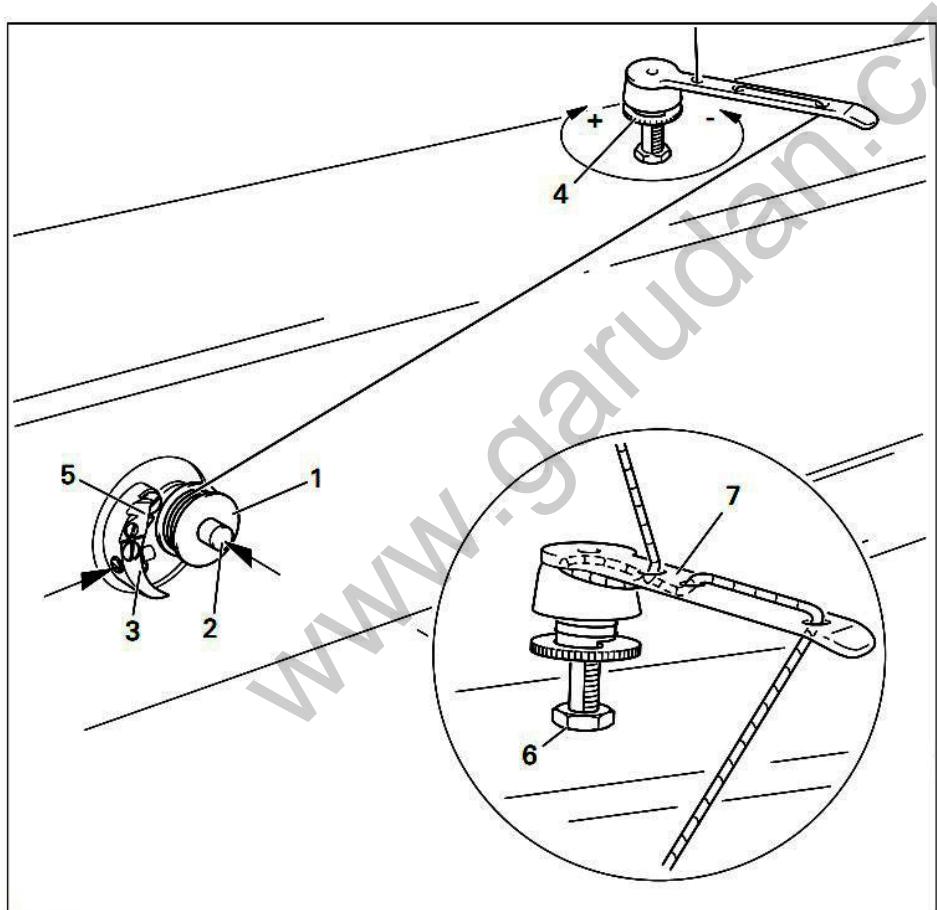


Fig. 11

- Place an empty bobbin 1 onto bobbin shaft 2.
- Thread the bobbin in accordance with the pictures and wind it anti-clockwise around bobbin 1 a few times.
- Switch on the bobbin winder while at the same time pressing bobbin winder spindle 2 and lever 3.



The bobbin fills up during sewing.

- The tension of the thread on bobbin 1 can be adjusted with knurled screw 4.
- The bobbin winder stops automatically when bobbin 1 is full.
- Remove the filled bobbin 1 and cut the thread on knife 5.



If the thread is wound unevenly, loosen nut 6 and turn thread guide 7 accordingly.  
Retighten nut 6 after the adjustment.

### 6.03 REMOVING/INSERTING THE BOBBIN CASE

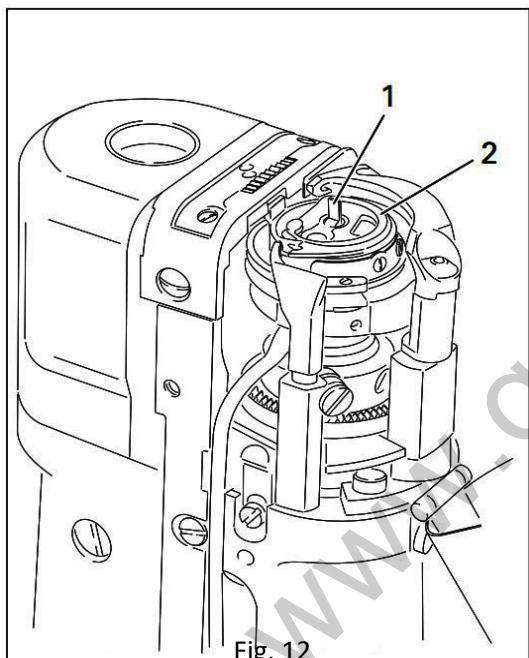


Fig. 12



Switch the machine off! Danger of injury if the machine is started accidentally!

Removing the bobbin case:

- Open the post cap.
- Raise latch 1 and remove bobbin case 2.

Inserting the bobbin case:

- Insert bobbin case 2.
- Close the latch and close the post cap.

### 6.04 THREADING THE BOBBIN CASE/ADJUSTING THE BOBBIN THREAD TENSION

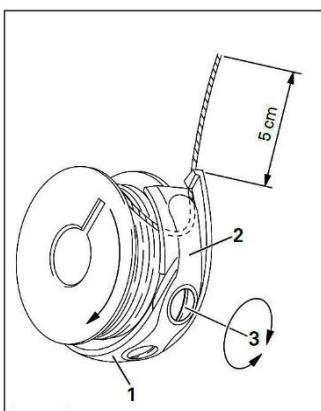


Fig.13

Insert the bobbin into the bobbin case 1  
Pass the thread through the slot under spring 2.  
Pass the thread through the notch.  
Adjust the thread tension by turning screw 3.

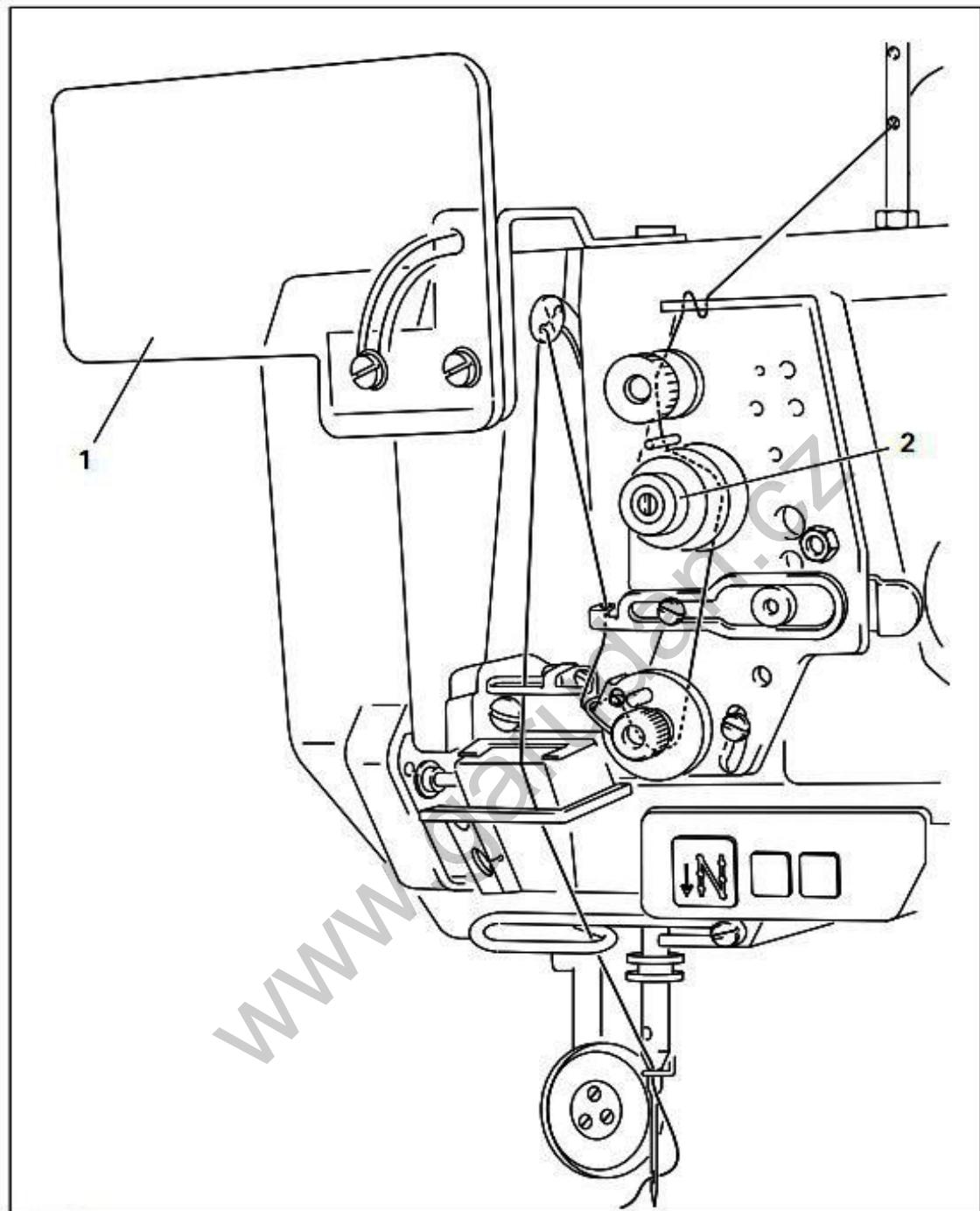
**6.05 THREADING THE NEEDLE THREAD AND REGULATING ITS TENSION (SINGLE NEEDLE)**

Fig. 14



Switch the machine off!

Danger of injury if the machine is started accidentally!

- Tilt up the eye guard 1.
- Thread the needle thread as shown.  
The needle is threaded from the left to the right.
- Adjust the needle thread tension by turning milled screw 2

## 6.06 THREADING THE NEEDLE THREAD AND REGULATING ITS TENSION (DOUBLE NEEDLE)

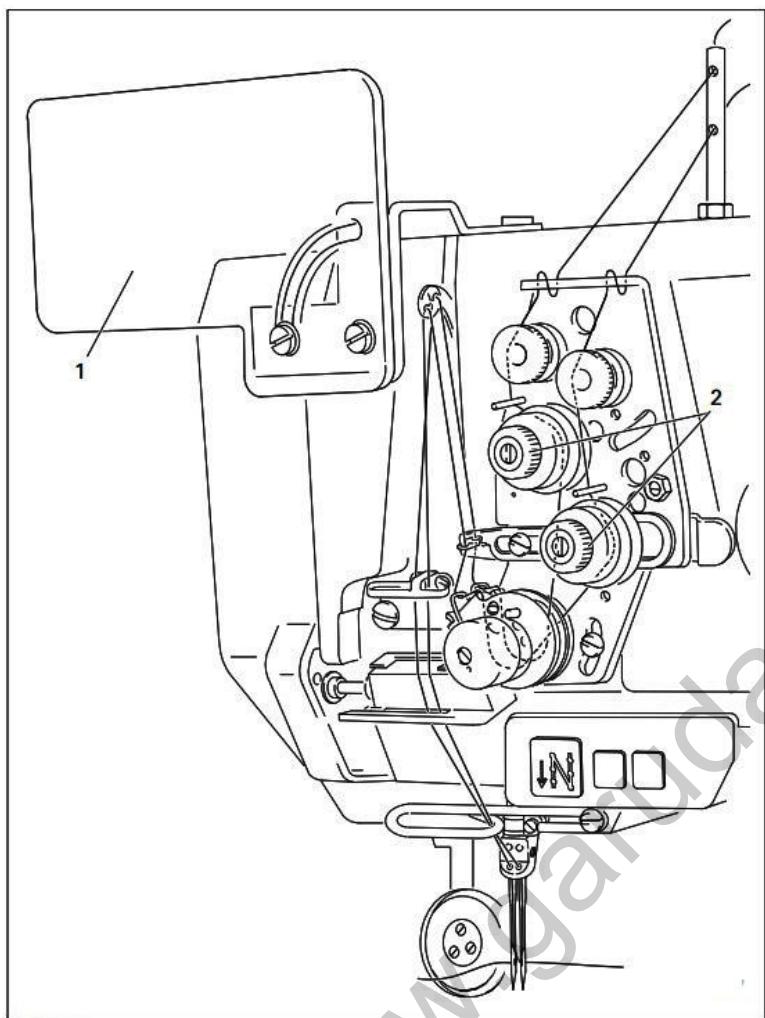


Fig. 15



Switch the machine off!

Danger of injury if the machine is started accidentally!

- Tilt up the eye guard 1.
- Thread both needle threads as shown.
- The left needle is threaded from the right to the left, and the right needle from the left to the right.
- Adjust the needle thread tensions by turning milled screws 2.

## 6.07 SETTING THE STITCH LENGTH

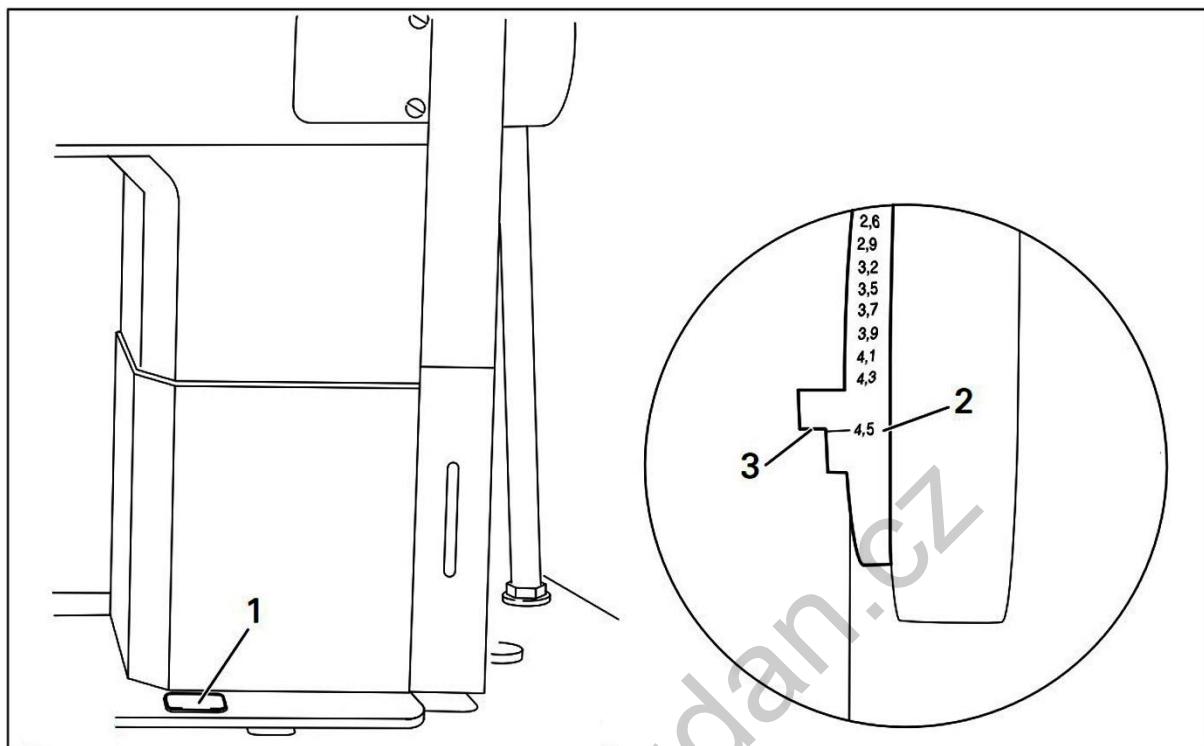


Fig. 16

- Press key 1 and at the same time turn the balance wheel until the stitch setter clicks into position.
- Hold down key 1 and turn the balance wheel to and fro until the stitch length required is shown on the scale 2 opposite the bottom edge 3 of the belt guard recess.

## 7 CARE AND MAINTENANCE

### 7.01 SERVICING AND MAINTENANCE INTERVALS

Clean	daily, more frequently if in continuous operation
Oil level (thread lubrication/hook lubrication)	daily, before use
Oil the hook	daily, before use
Lubricate the bevel gears	once a year

## 7.02 CLEANING

Clean the hook, hook compartment and toothed wheel 3 daily, several times if in continuous use.

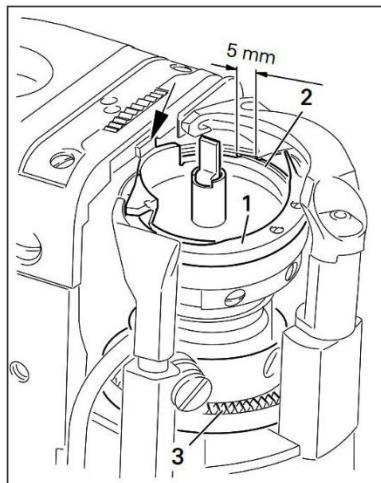


Fig. 17



Switch the machine off!

Danger of injury if the machine is started accidentally!

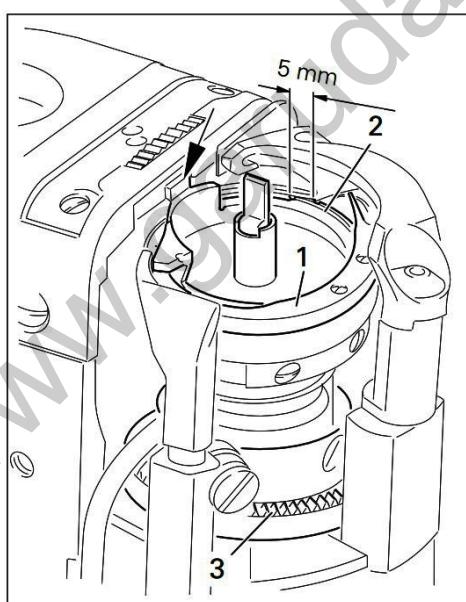


Fig. 18

Bring the needle bar to its highest position.

- Open the post cap and remove the bobbin case cap and the bobbin.
- Unscrew hook gib 1.
- Turn the handwheel until the point of bobbin case 2 penetrates into the groove of the hook race approx. 5 mm.
- Remove bobbin case 2.
- Clean the hook race with paraffin.
- When inserting the bobbin case 2, ensure that the horn of the bobbin case 2 engages in the groove of the needle plate.
- Screw hook gib 1 back on and close the post cap.

### 7.03 OILING THE HOOK

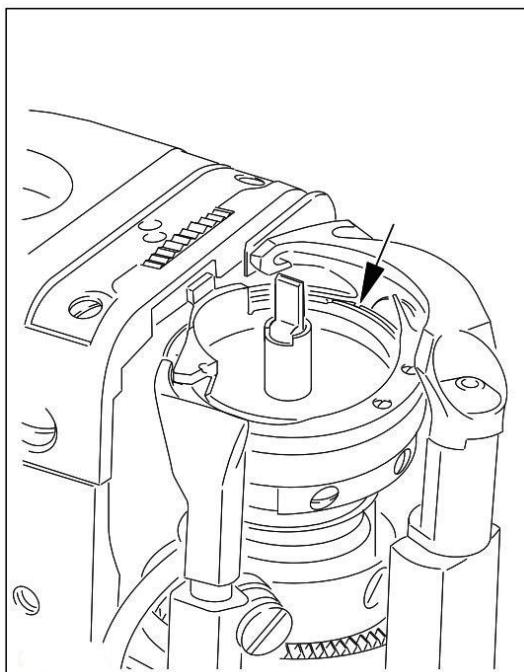


Fig. 19



Switch the machine off!  
Danger of injury if the machine is  
started accidentally!

- Before commissioning the machine, and after long periods out of operation, pour a few drops of oil into the hook race (see arrow).

### 7.04 OIL BOWL FOR HOOK LUBRICATION

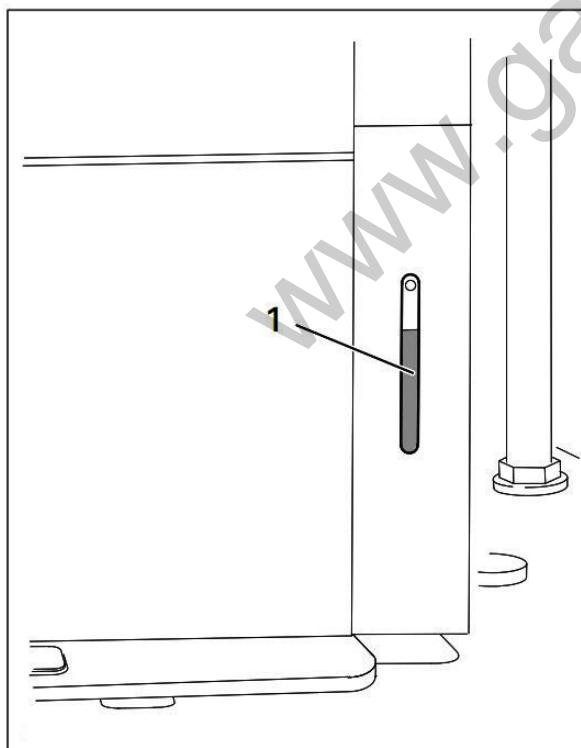


Fig. 20



Check the oil level before each use.  
There must always be oil in reservoir 1.

- If required refill oil through hole.

## 7.05 LUBRICATING THE BEVEL GEARS

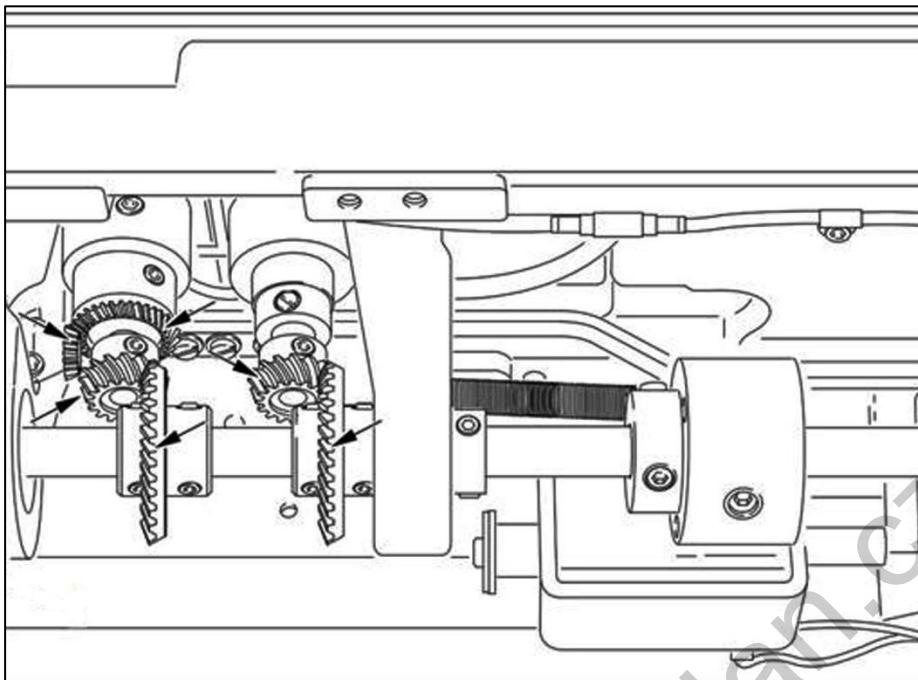


Fig. 21



Switch the machine off!  
Danger of injury if the machine is started accidentally!

- All bevel gears must be supplied with new grease once a year.
- Tilt the sewing head back onto the support.

## 7.06 OILING THE OIL RESERVOIR OF THE THREAD LUBRICATION UNIT

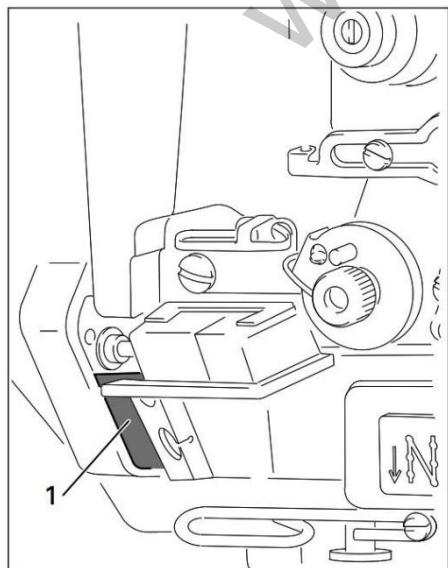


Fig. 22

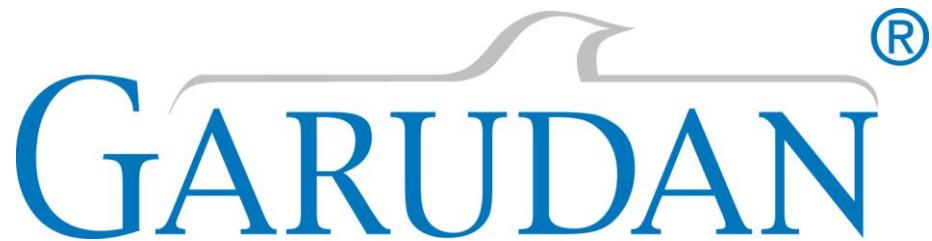


Check the oil level before each use.  
There must always be oil in reservoir 1.

- If required refill oil through hole.



# Operation Panel Manual



**GP-110-147**

**GP-124-147**

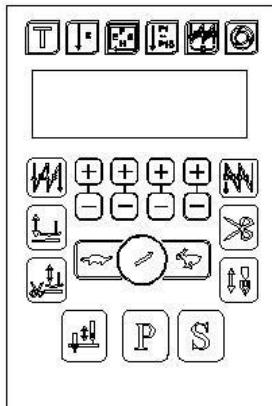
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MP02800EN\_200213

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## 1. Operation Panel Control



Function	Button	Description
Teaching function		Enters the teaching mode (for technicians only).
Sewing selected number of stitches		After stepping the pedal the machine will sew selected number of stitches (E = number of stitches).
Program sewing		After stepping the pedal the machine sews segments E, F, G and H.
Segment sewing		<p>Segment mode selection:</p> <ul style="list-style-type: none"> <li>Numerals on the left side of display = set the segment number: 1,2,3,4,5,6,7,8,9,A,B,C,D,E,F</li> <li>Numerals on the right side of display = set the number of stitches in the selected segment</li> <li>Machine performs sewing of selected segments up to the last one (i.e., a non-zero segment)</li> </ul>
Back tacking		<ul style="list-style-type: none"> <li>After stepping the pedal machine performs back tacking, D = number of selected stitches (max. 15)</li> <li>The machine sews automatically, no need to hold pedal pressed</li> <li>When this mode is on, preset start and end back tacking is not working</li> </ul>
Automatic sewing		<ul style="list-style-type: none"> <li>Valid only for program sewing: After stepping the pedal machine sews automatically preset segments E, F, G, H in one step. No need to hold the pedal down.</li> </ul>
Start back tacking		Start back tacking mode selection (sews segments A and B).
End back tacking		End back tacking mode selection (sews segments C and D).
Presser foot lift in the middle of sewing		Presser foot lift in the middle of sewing on/off. Signal icon is in the lower left corner of display. When the icon is lit up, presser foot is lifted.

<b>Automatic thread trimming</b>		Automatic thread trimming function on/off.
<b>Foot lift after trimming</b>		Presser foot lift after thread trimming: on/off. Signal icon is in the lower left corner of display. When the icon is lit, presser foot is lifted.
<b>Needle position in the middle of sewing</b>		Needle position in the middle of sewing: up/down. Signal icon is in the lower right side of display.
<b>Slow start</b>		Slow start function on/off. Signal icon is on the lower middle part of display.
<b>Sewing speed</b>		Decreases the sewing speed
		Increases the sewing speed
<b>Settings/ Checking the number of stitches</b>		Pushing the button switches between these groups of parameters: 1. A, B, C, D: numbers of stitches for start and end back tacking 2. E, F: program sewing only: number of stitches in the segments 1 and 2 3. G, H: program sewing only: number of stitches in the segments 3 and 4
<b>Parameters setting</b>		Enters technical parameters (for technicians only)

## 2. Error Codes List

Error Code	Content	Possible Reasons	Checking and Treatment
<b>E011</b> <b>E012</b> <b>E013</b> <b>E014</b>	Motor signal error	Motor position sensor signal failure	<ul style="list-style-type: none"> <li>If electric engine plug is well contacted</li> <li>If electric engine signal detecting device has been broken</li> <li>If sewing machine handwheel correctly installed</li> </ul>
<b>E015</b>	Model type error	Unable identify operating box model type	<ul style="list-style-type: none"> <li>Check operating box type</li> </ul>
<b>E021</b> <b>E022</b> <b>E023</b>	Motor overload	Motor stall Motor overload	<ul style="list-style-type: none"> <li>If electric engine plug is well contacted</li> <li>If machine head or thread-cutting mechanism has been blocked completely</li> <li>If materials are too thick</li> <li>Electrical signal detection signal whether the normal</li> </ul>

<b>E101</b>	Hardware drivers fault	Current detection abnormal Driving hardware error	<ul style="list-style-type: none"> <li>• Current detection loop system is working properly</li> <li>• Whether the damage to the device driver</li> </ul>
<b>E111</b> <b>E112</b>	Voltage too high	High input voltage Brake circuit fault Voltage detection error	<ul style="list-style-type: none"> <li>• System into line voltage is too high</li> <li>• Braking resistance are working properly</li> <li>• System voltage detection circuit are working properly</li> </ul>
<b>E121</b> <b>E122</b>	Voltage too low	Actual low voltage Voltage detection is wrong	<ul style="list-style-type: none"> <li>• If the voltage on the inlet wire is too low</li> <li>• Whether the system voltage detection circuit normal work</li> </ul>
<b>E131</b>	Current circuit fault	Current detection abnormal	<ul style="list-style-type: none"> <li>• Current detection loop system is working properly</li> </ul>
<b>E133</b>	Oz circuit fault	Oz circuit fault	<ul style="list-style-type: none"> <li>• Oz circuit system is working properly</li> </ul>
<b>E151</b>	Magnet circuit error	Over current magnet circuit	<ul style="list-style-type: none"> <li>• If machine head magnet suffers short circuit</li> <li>• Electromagnet circuit is working properly</li> </ul>
<b>E201</b>	Over-current	Current detection error	<ul style="list-style-type: none"> <li>• Current detection loop system is working properly</li> <li>• Electrical signal is normal</li> </ul>
<b>E211</b> <b>E212</b>	Abnormal motor operation	Current or voltage detection error	<ul style="list-style-type: none"> <li>• If electric engine plug is well contacted</li> <li>• If electric engine signal is matched</li> </ul>
<b>E301</b>	Communication error	Sci circuit error	<ul style="list-style-type: none"> <li>• If operation box plug is well contacted</li> <li>• If operation box components are damaged</li> </ul>
<b>E302</b>	Operation inner failure	Sci circuit error	<ul style="list-style-type: none"> <li>• To check whether the operating box is damaged</li> </ul>
<b>E402</b>	Pedal ID fault	Pedal verification fault	<ul style="list-style-type: none"> <li>• Pedal connection is loosen</li> </ul>
<b>E403</b>	Pedal zero position fault	The pedal zero position over-range	<ul style="list-style-type: none"> <li>• The pedal is damaged or it is not under stop state when correction</li> </ul>
<b>E501</b>	Safety switch fault	Safety switch effective	<ul style="list-style-type: none"> <li>• Put down the head or check turned up switch</li> </ul>
<b>P.OFF</b>	Power off Display	Power off	<ul style="list-style-type: none"> <li>• Wait for power supply to resume</li> </ul>



# Katalog náhradních dílů

## Spare Parts List



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MP02800_201120	20. 11. 2020	Ing. Kamil Krátký

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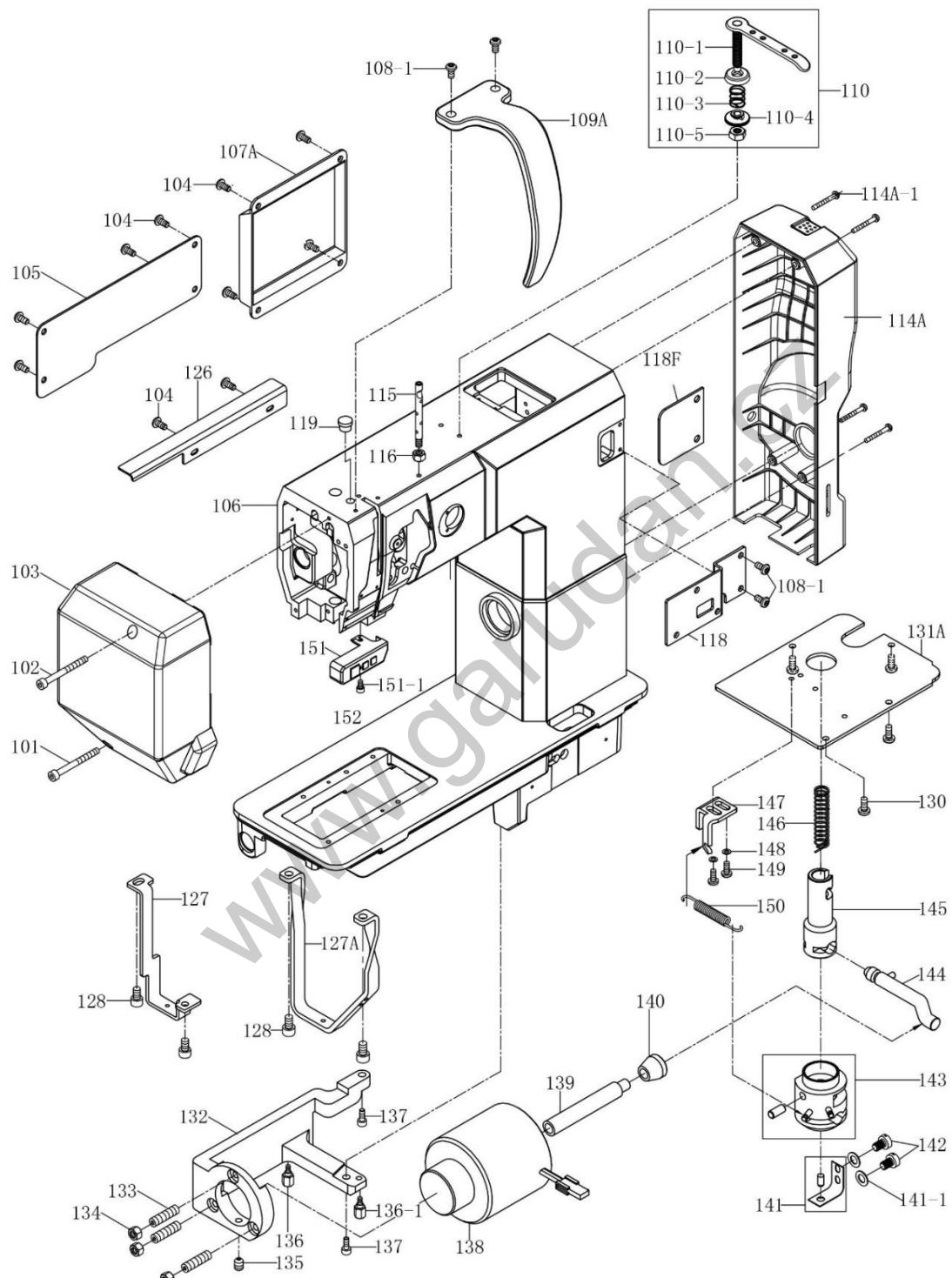
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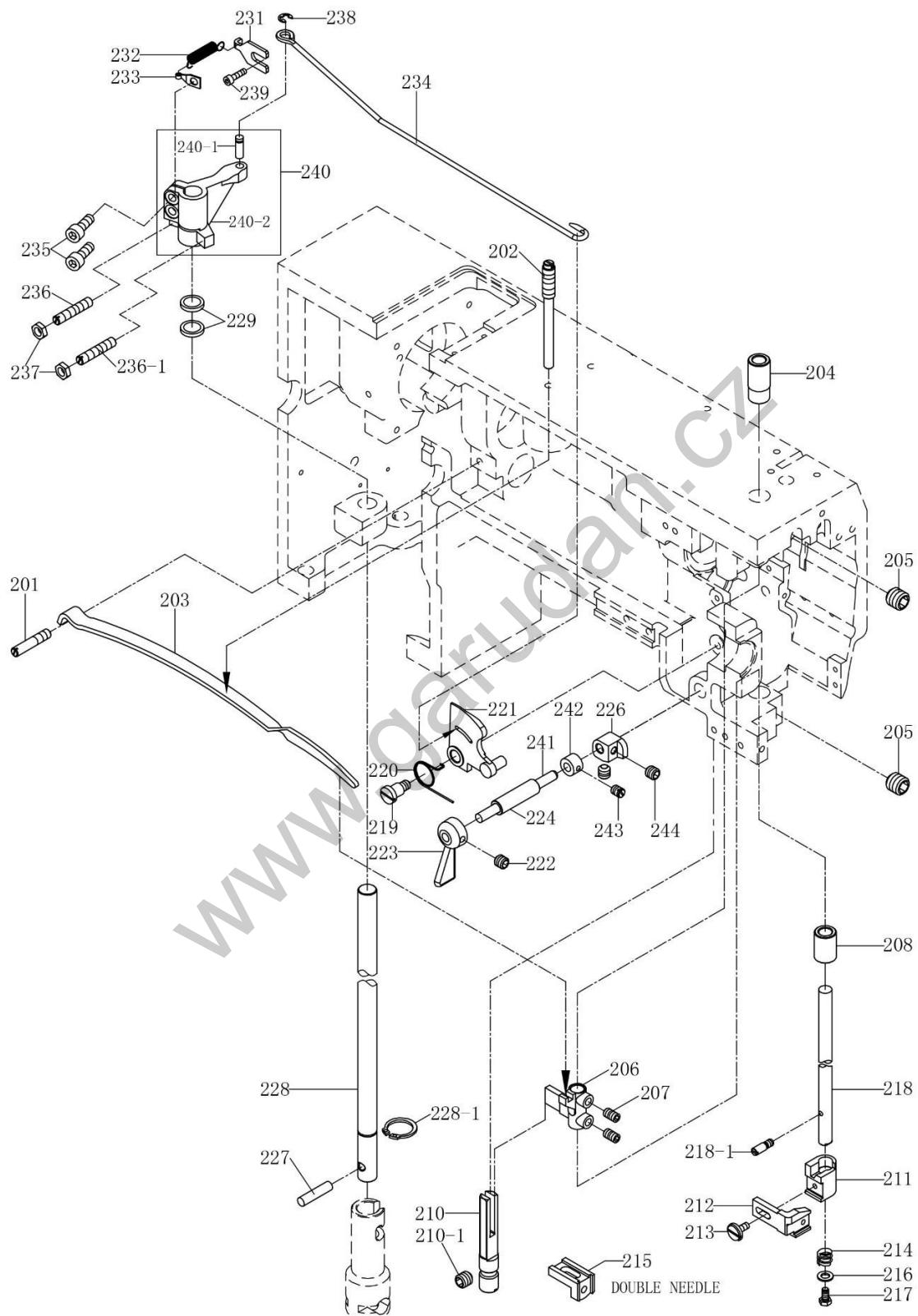
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## 1. ARM BED AND ITS ACCESSORIES

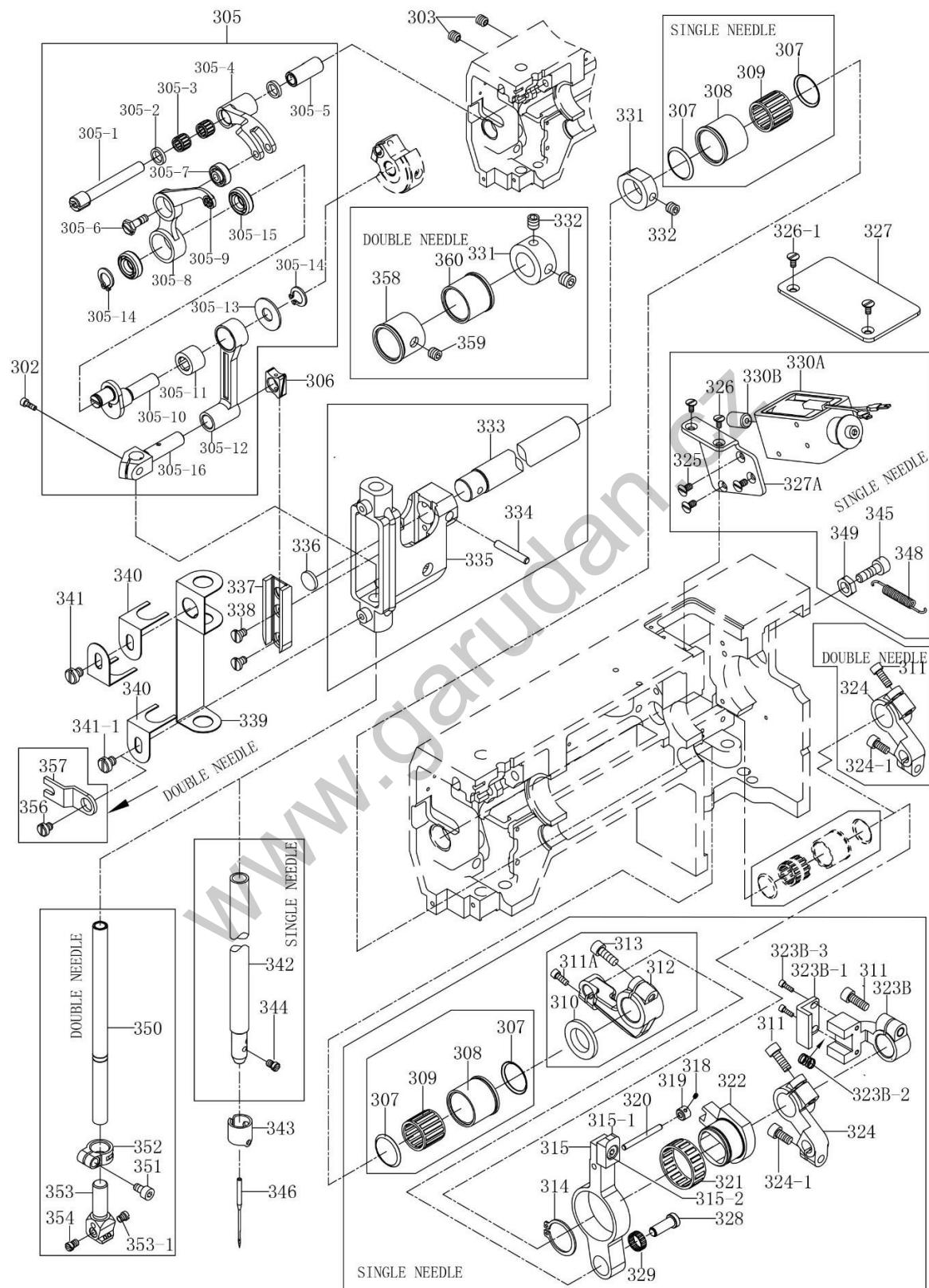


<b>1. ARM BED AND ITS ACCESSORIES</b>			
<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
101	GB/T70-85	1	1
102	GB/T70-85	1	1
103	591-103	1	1
104	GB/T2672-86	8	8
105	9922-01-105	1	1
106	9922BFT-01-106	1	1
107A	591-115-1	1	1
108-1	GB/T2672-86	4	4
109A	591-122A	1	1
110	591-403	1	1
111	GB/T70-85	3	3
112	9922-01-112	1	1
113	GB/T70-85	6	6
114	9922-01-114	1	1
114A	i60/MD-4	1	1
115	9910-08	1	1
116	GB/T6170-2000	7	7
117	9922-01-117	1	1
118	9922-01-118	1	1
118B	9922-01-118B	1	1
118F	9922-01-118F	1	1
119	591-133	1	1
127	591-126-1	0	1
127A	591-126	1	0
128	9910-020	2	2
130	GB/T65-2000	5	5
131A	591-123	1	1
132	591-1020	1	1
133	GB/T77-2000	3	3
134	GB/T6170-2000	3	3
135	GB/T80-2000	1	1
136	591-1004	1	1
136-1	591-1004-1	1	1
137	GB/T70-85	2	2
138	591-1006-138	1	1
139	591-1007	1	1
140	591-1008	1	1
141	591-1009	1	1
141-1	GB/T95-85	2	2
142	9910-88	2	2
143	591-1012	1	1
144	591-1013	1	1
145	591-1014	1	1
146	591-1015	1	1
147	591-1016	1	1
148	GB/T95-85	5	5
149	GB/T65-2000	2	2
150	591-1019	1	1
151	591-136	1	1
151-1	GB/T2672-86	1	1
152	591-134	1	1
152-1	591-135	1	1
154	GB/T70.3-2000	3	3

**2. PRESSER FOOT BAR MECHANISM**

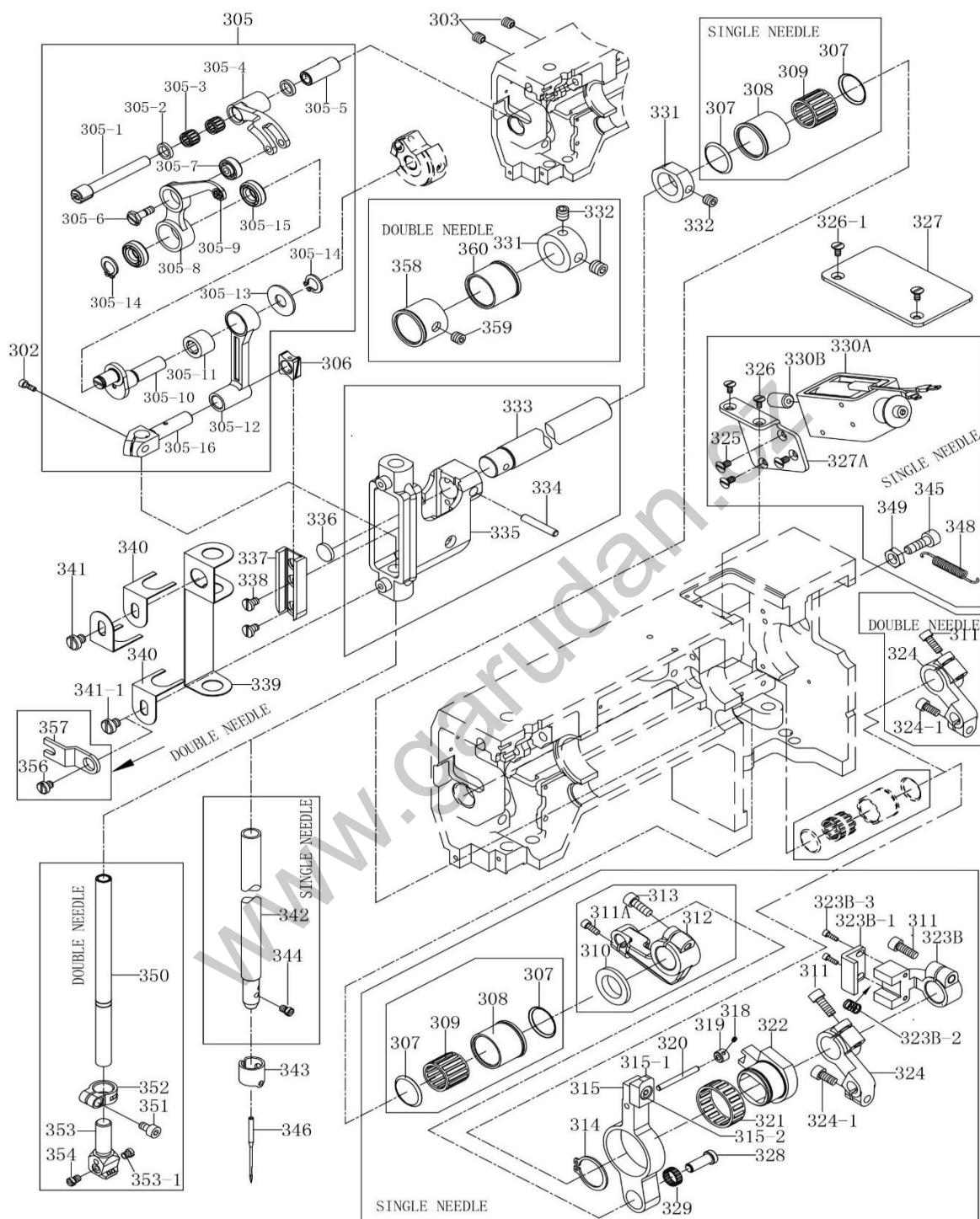
<b>2. PRESSER FOOT BAR MECHANISM</b>			
<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
201	9910-119	1	1
202	9910-118	1	1
203	9910-117	1	1
204	9910-124	1	1
205	GB/T80-2000	2	2
206	9910-126	1	1
207	9910-094	2	2
208	9910-127	1	1
210	9910-133	1	1
210-1	GB/T80-2000	1	1
211	9922BFT-211	1	1
212	9922BFT-02-212	1	1
213	9910-51	1	1
214	9910-130	1	1
215	9910-131	0	1
216	GB/T95-85	1	1
217	GB/T70-85	1	1
218	9922BFT-02-218	1	1
218-1	9922BFT-218-1	1	1
219	9910-121	1	1
220	9910-122	1	1
221	9910-123	1	1
222	GB/T80-2000	1	1
223	9910-114	1	1
224	9922-02-224	1	1
226	591-226	1	1
227	9910-150	1	1
228	9910-148	1	1
228-1	GB/T894.1-86	1	1
229	9910-147-1	2	2
231	9910-143	1	1
232	801-76	1	1
233	9910-145	1	1
234	9910-120	1	1
235	GB/T70-85	2	2
236	GB/T79-2000	1	1
236-1	GB/T79-2000	1	1
237	GB/T6170-2000	2	2
238	GB/896-86	1	1
239	GB/T70-85	1	1
240-1	9910-146	1	1
240-2	9910-147	1	1
241	591-224	1	1
242	591-239	1	1
243	GB/T80-2000	2	2
244	GB/T80-2000	2	2

### 3. TAKE-UP LEVER NEEDLE BAR ROCKING MECHANISM (1/2)



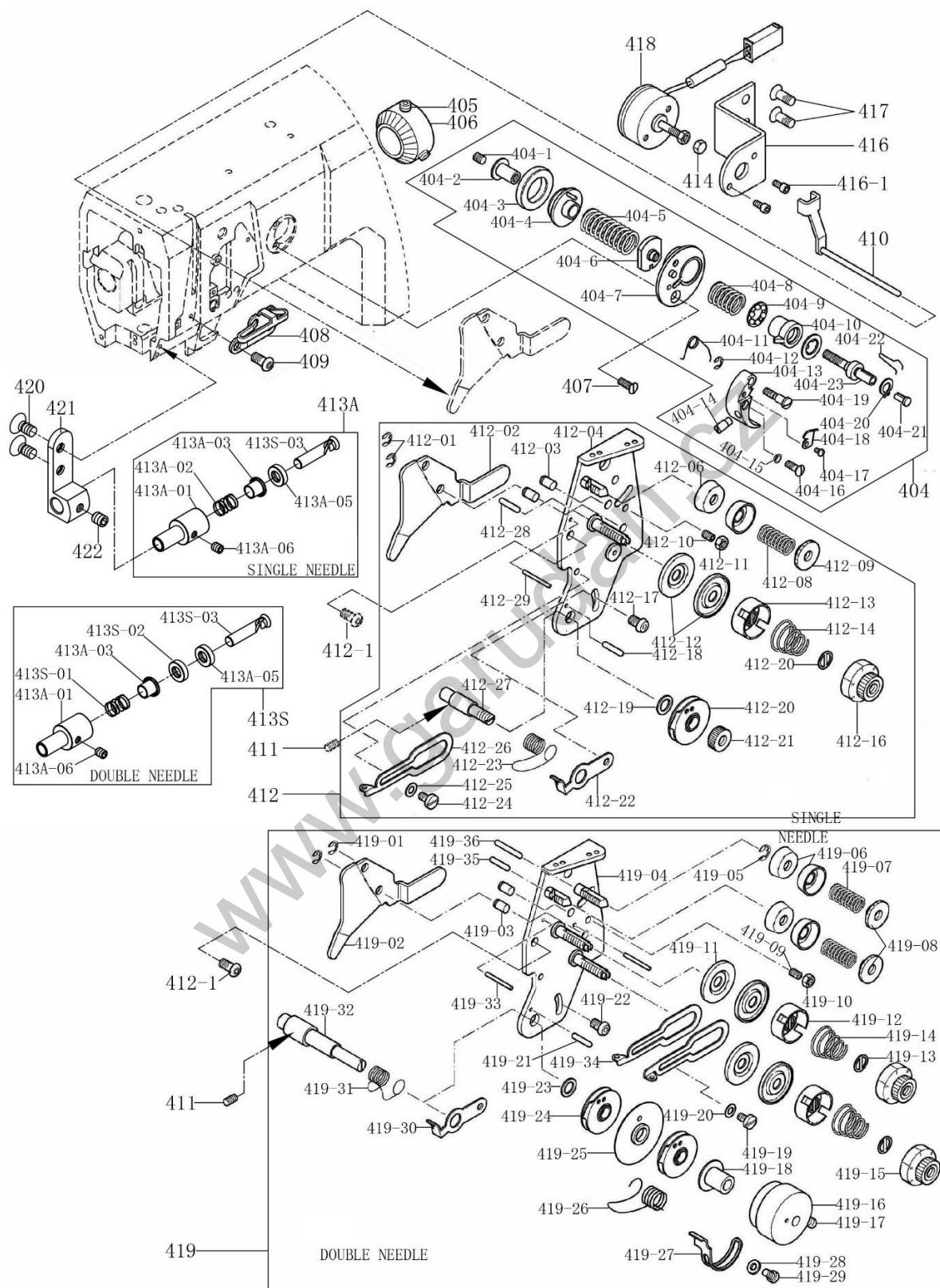
3. TAKE-UP LEVER NEEDLE BAR ROCKING MECHANISM (1/2)			
NO.	PART NO.	GP-110-147	GP-124-147
302	GB/T70-85	1	1
303	GB/T80-2000	2	2
305	591-305	1	1
305-01		1	1
305-02		2	2
305-03		2	2
305-04		1	1
305-05		1	1
305-06		1	1
305-07		1	1
305-08/09		1	1
305-10		1	1
305-11		1	1
305-12		1	1
305-13		1	1
305-14		2	2
305-15		2	2
305-16		1	1
306	9910-086	1	1
307	9910-107	14	10
308	9910-109	7	5
309	9910-108	7	5
310		1	0
311	GB/T70-85	2	1
311A	GB/T70-85	1	0
312	591-312	1	1
313	GB/T70-85	1	1
314	GB/T894.1-86	1	0
315	591-315	1	0
315-1	9922BFT-03-315B	1	0
315-2	GB/T70-85	1	1
318	GB/T80-2000	2	0
319	591-319	1	0
320	GB/T879.1-2000	1	1
321	9910-159	1	0
322	591-322	1	0
323B	591-323B	1	0
323B-1	591-323B-1	1	0
323B-2	591-323B-2	1	0
323B-3	GB/T 70.1-2000	2	2
324	9922BFT-03-324	1	1
324-1	GB/T 70.1-2000	1	1

### 3. TAKE-UP LEVER NEEDLE BAR ROCKING MECHANISM (2/2)



<b>3. TAKE-UP LEVER NEEDLE BAR ROCKING MECHANISM (2/2)</b>			
<b>NO.</b>	<b>PART NO.</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
325	GB/T70.3-2000	3	0
326	GB/T70.3-2000	4	0
326-1	GB/T60-2000	2	2
327	9922BFT-03-327	1	0
327A	9922BFT-03-327A	1	0
328	9910-136	1	0
329	9910-137	1	0
330A	9922BFT-03-330A	1	0
330B	591-641	1	0
331	9910-106	1	2
332	9910-094	1	3
333	9910-105	1	1
334	9910-102	1	1
335	9910-101	1	1
336	9910-087B	1	1
337	9910-087	1	1
338	9910-088	2	2
339	9910-101A	1	1
340	9910-099	3	3
341	9910-088	1	1
341-1	9910-098	1	1
342	9910-77	1	0
343	9910-079	1	0
344	9910-078	1	0
345	GB/T70-85	1	0
346		1	2
348	591-348	1	0
349	GB/T6170-2000	1	0
350	9910-080	0	1
351	9910-081	0	1
352	9910-082	0	1
353	9910-83/84	0	1
353-1	9910-84	0	1
354	9910-85	0	2
356	9910-95	0	1
357	9910-97	0	1
358	9910-91	0	1
359	GB/T80-2000	0	1
360	9910-92	0	1

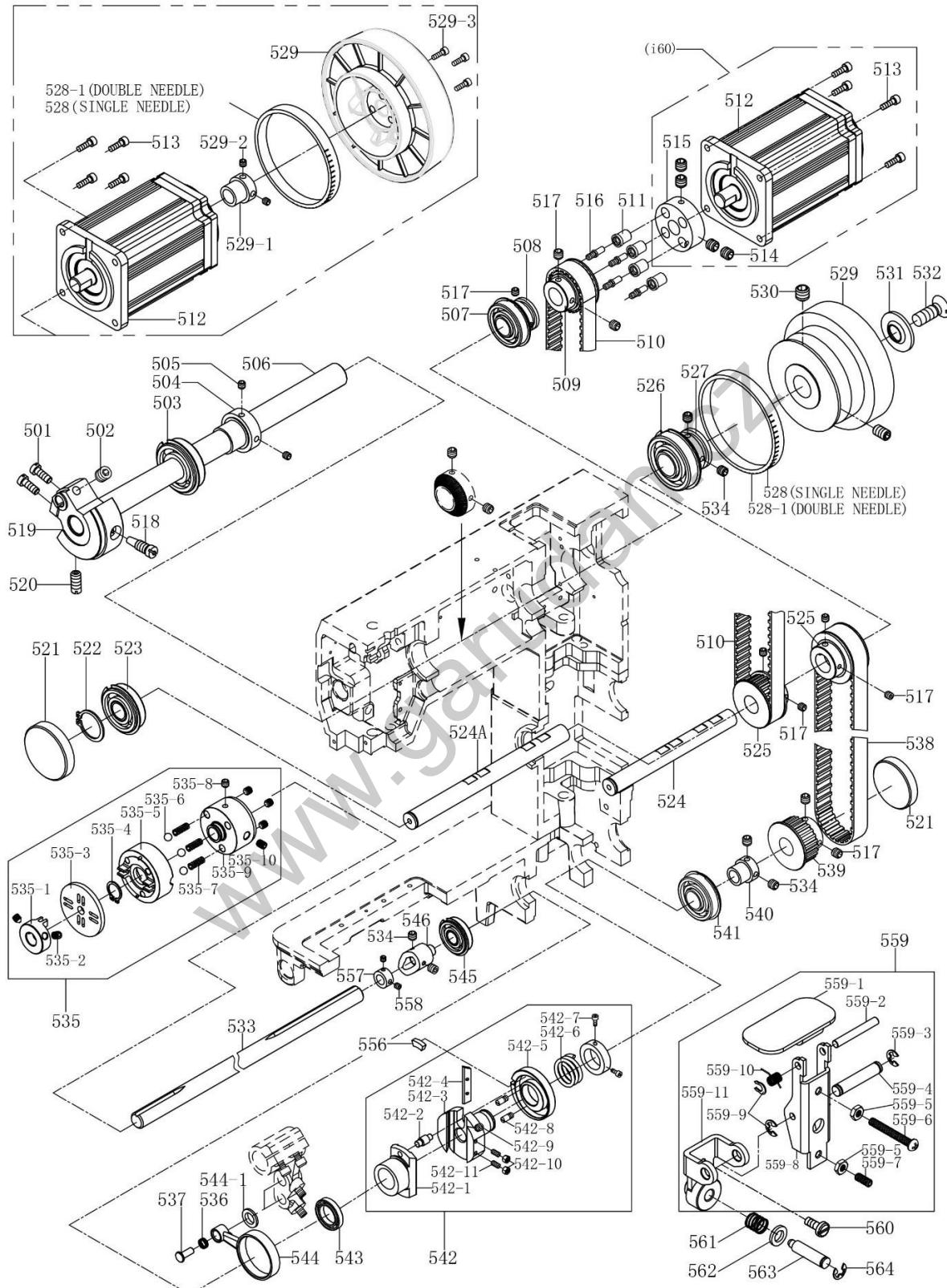
#### 4. UPPER THREAD TENSION REGULATION MECHANISM



**4. UPPER THREAD TENSION REGULATION MECHANISM**

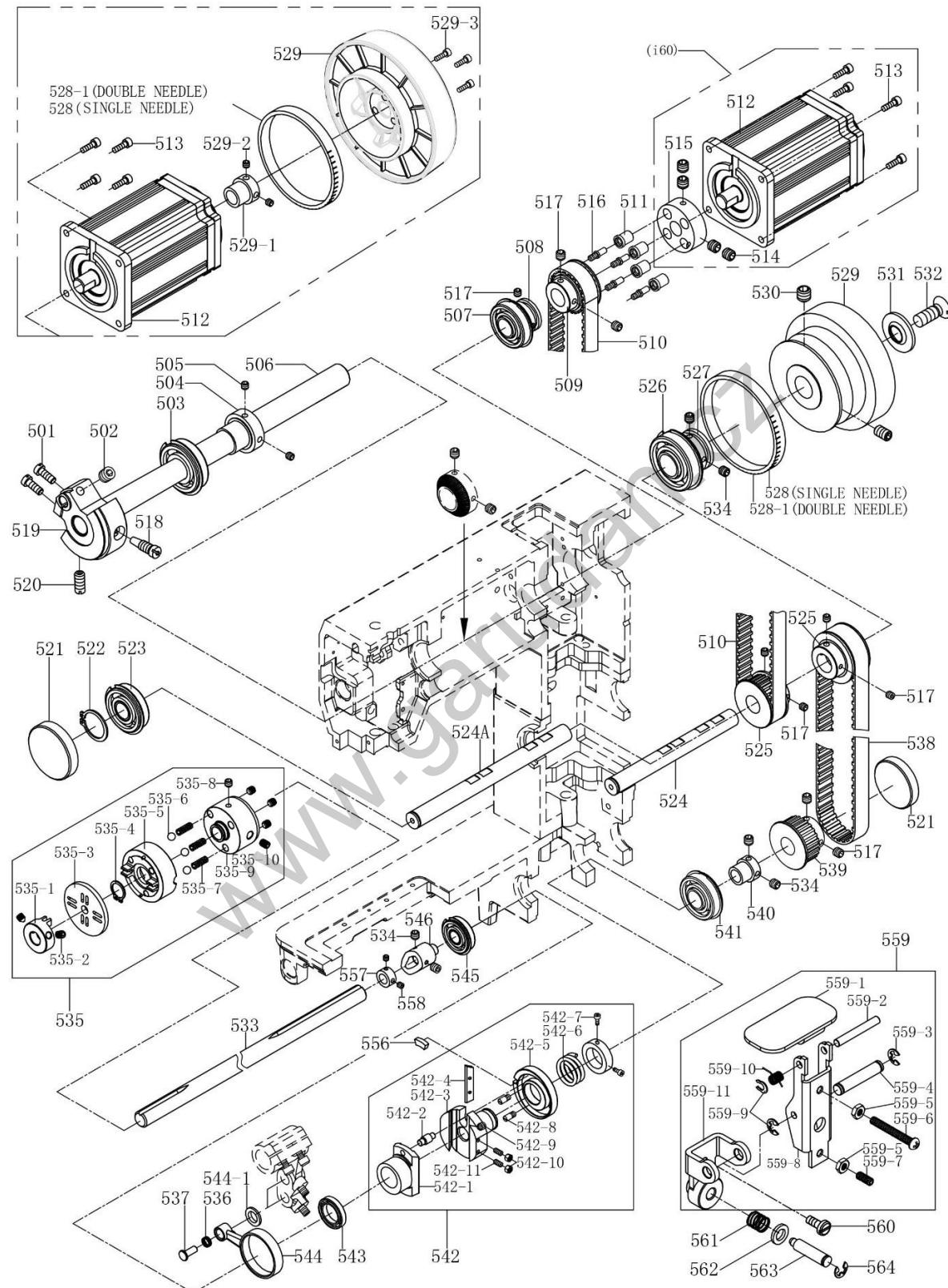
<b>NO.</b>	<b>PART NO.</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
404	591-404	1	1
405	GB/T80-2000	2	2
406	591-406B	1	1
407	GB/T60-2000	1	1
408	9910-013	1	1
409	GB/T2672-86	1	1
410	591-410	1	1
411	GB/T80-2000	1	1
412	591-412	1	0
412-1	GB/T2672-86	1	1
413A	591-413A-00	1	0
413S	591-413S-00	0	1
414	591-414	1	1
415	9910-51	1	1
416	591-416	1	1
416-1	GB/T70-85	2	2
417	GB/T70.3-2000	2	2
418	591-418	1	1
419	591-419	0	1
420	GB/T70.3-2000	2	2
421	591-421	1	1
422	GB/T 80-2000	1	1

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



<b>5. PRESSER FOOT BAR MECHANISM (1/2)</b>			
<b>NO.</b>	<b>PART NO.</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
501	9910-171	2	2
502	9910-094	2	2
503	9910-175	1	1
504	9910-173	1	1
505	9910-094	2	2
506	9922-05-506	1	1
507	9910-179	1	1
508	9910-180	1	1
509	9922-05-509	1	1
510	9910-177	1	1
511	9922-05-511	4	4
512	9922-05-512	1	1
512A	9922-05-512A	1	1
512A-1	9922-05-512-1	1	1
513	GB/T70-85	4	4
514	9910-094	2	2
515	9922-05-515	1	1
516	9922-05-516	4	4
517	9910-094	2	2
518	9910-170	1	1
519	9910-172	1	1
520	9910-172-1	1	1
521	9910-186	2	2
522	9910-187	1	1
523	9910-188	1	1
524A	9922-05-524A	1	1
524	9922-1BFT-524B	1	1
525	9910-178-1	2	2
526	9910-179	1	1
527	9910-180	1	1

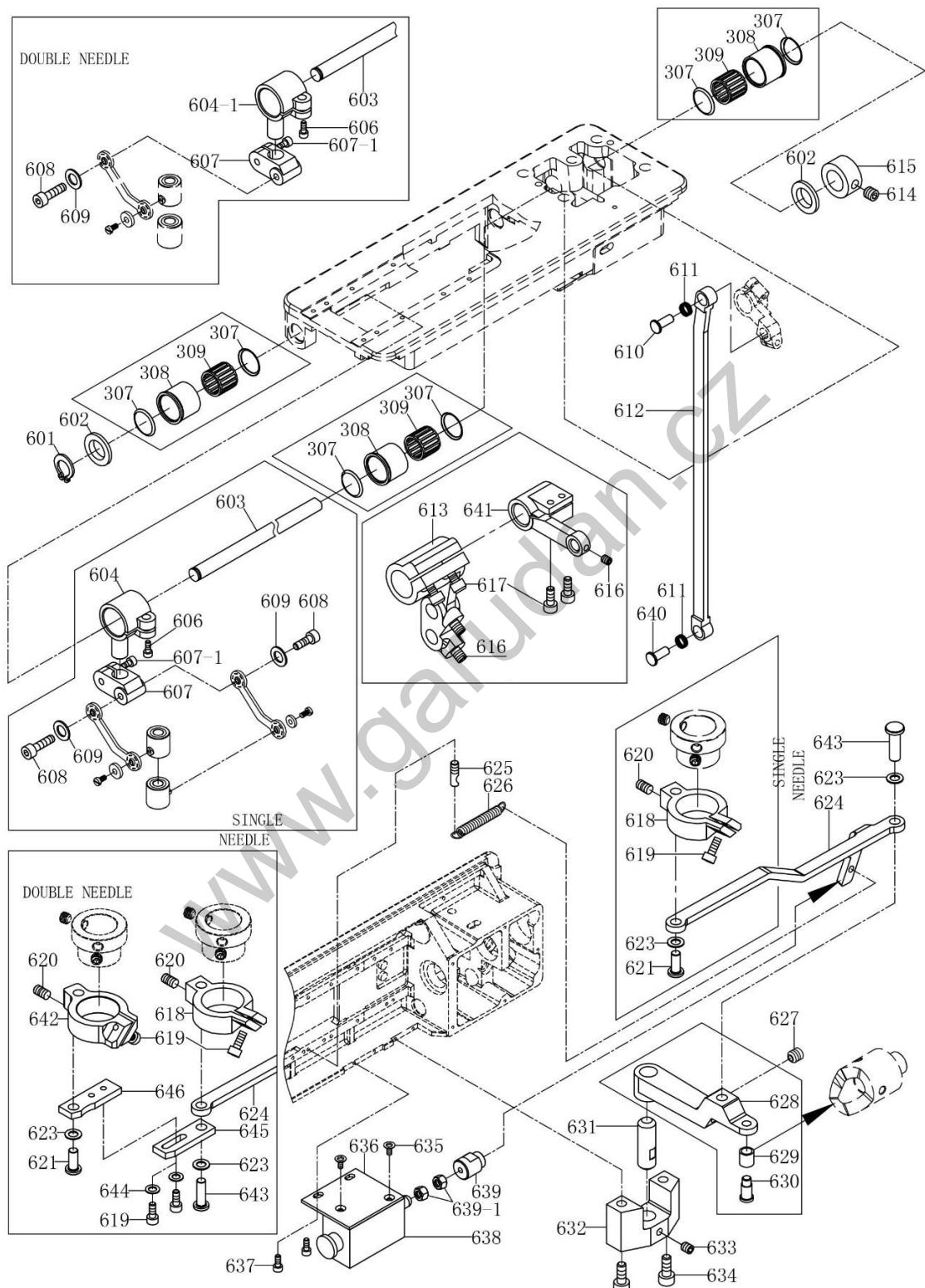
## 5. PRESSER FOOT BAR MECHANISM (2/2)



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

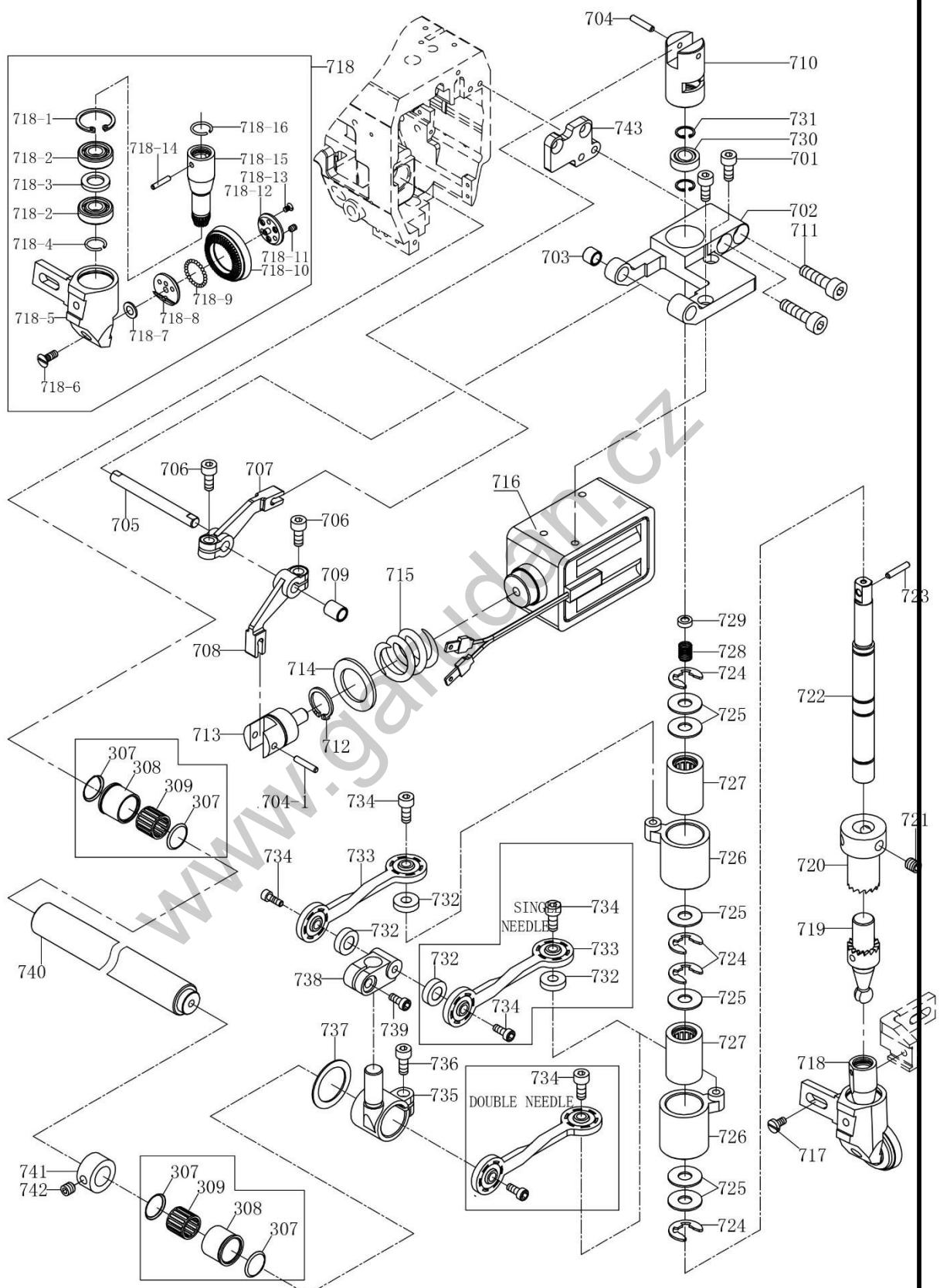
NO.	PART NO.	GP-110-147	GP-124-147
528	9910-184-1	1	0
528-1	9910-184-2	0	1
529	9922BFT-529B	1	1
529-1	9168-529-1B	1	1
529-2	GB/T80-2000	2	2
529-3	GB/T2672-86	3	3
530	9910-184S	2	2
531	9910-182	1	1
532	9910-183	1	1
533	9910-199	1	1
534	9910-094	10	10
535	591-526	1	1
536	9910-137	1	1
537	9910-160	1	1
538	9910-177-1	1	1
539	9910-192	1	1
540	9910-193	1	1
541	9910-188	1	1
542	591-539	1	1
543	9910-201	1	1
544	9910-202	1	1
544-1	9910-72		
545	9910-191	1	1
546	591-545	1	1
556	591-570	1	1
557	591-855	1	1
558	GB/T80-2000	2	2
559	591-501	1	1
560	GB/T67-2000	1	1
561	591-728	1	1
562	GB/T95-85	1	1
563	591-505	1	1
564	GB/T896-86	1	1

## 6. LOWER FEED & THREAD TRIMMING MECHANISM



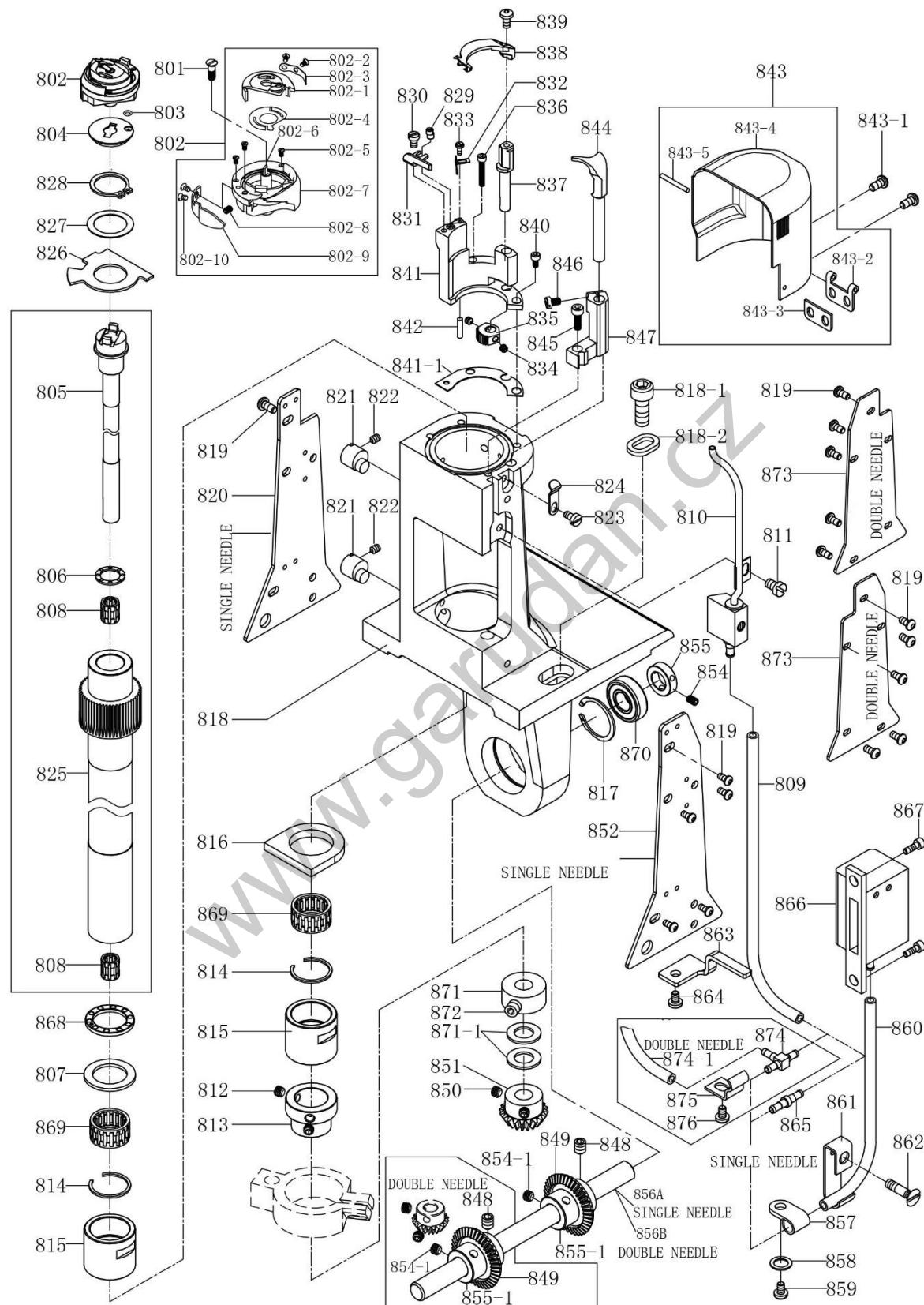
<b>6. LOWER FEED &amp; THREAD TRIMMING MECHANISM</b>			
<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
601	GB/894.1-86	1	1
602	9910-168	2	2
603	591-603	1	1
604	9910-155	1	0
604-1	9910-169	0	1
606	GB/T70-85	1	1
607	9910-152	1	1
607-1	GB/T70-85	1	1
608	GB/T70-85	2	1
609	9910-42	2	1
610	9910-160	1	1
611	9910-137	2	2
612	9910-138	1	1
613	9922BFT-06-613	0	1
614	9910-094	2	2
615	9910-093	1	1
616	GB/T80-2000	0	3
617	GB/T70-85	0	4
618	591-620	1	1
619	GB/T70-85	1	4
620	GB/T80-2000	1	2
621	591-623	2	2
622	GB/T896-86	2	3
623	GB/T95-85	1	2
624	591-626	1	1
625	591-627	1	1
626	591-628	1	1
627	GB/T80-2000	1	1
628	591-630	1	1
629	591-631	1	1
630	591-632	1	1
631	591-633	1	1
632	591-634	1	1
633	GB/T80-2000	1	1
634	GB/T70-85	2	2
635	GB/T70.3-2000	2	2
636	591-638	1	1
637	GB/T70-85	2	2
638	591-640-638	1	1
639	591-641	1	1
639-1	GB/T6172-2000	2	2
640	9910-160	2	2
641	9910-165	0	1
642	591-645	0	1
643	591-623-1	0	1
644	GB/T95-85	0	2
645	591-643	0	1
646	591-642	0	1

## 7. ROLLER PRESSER FOOT & UPPER SIDE SHAFT MECHANISM



**7. ROLLER PRESSER FOOT & UPPER SIDE SHAFT MECHANISM**

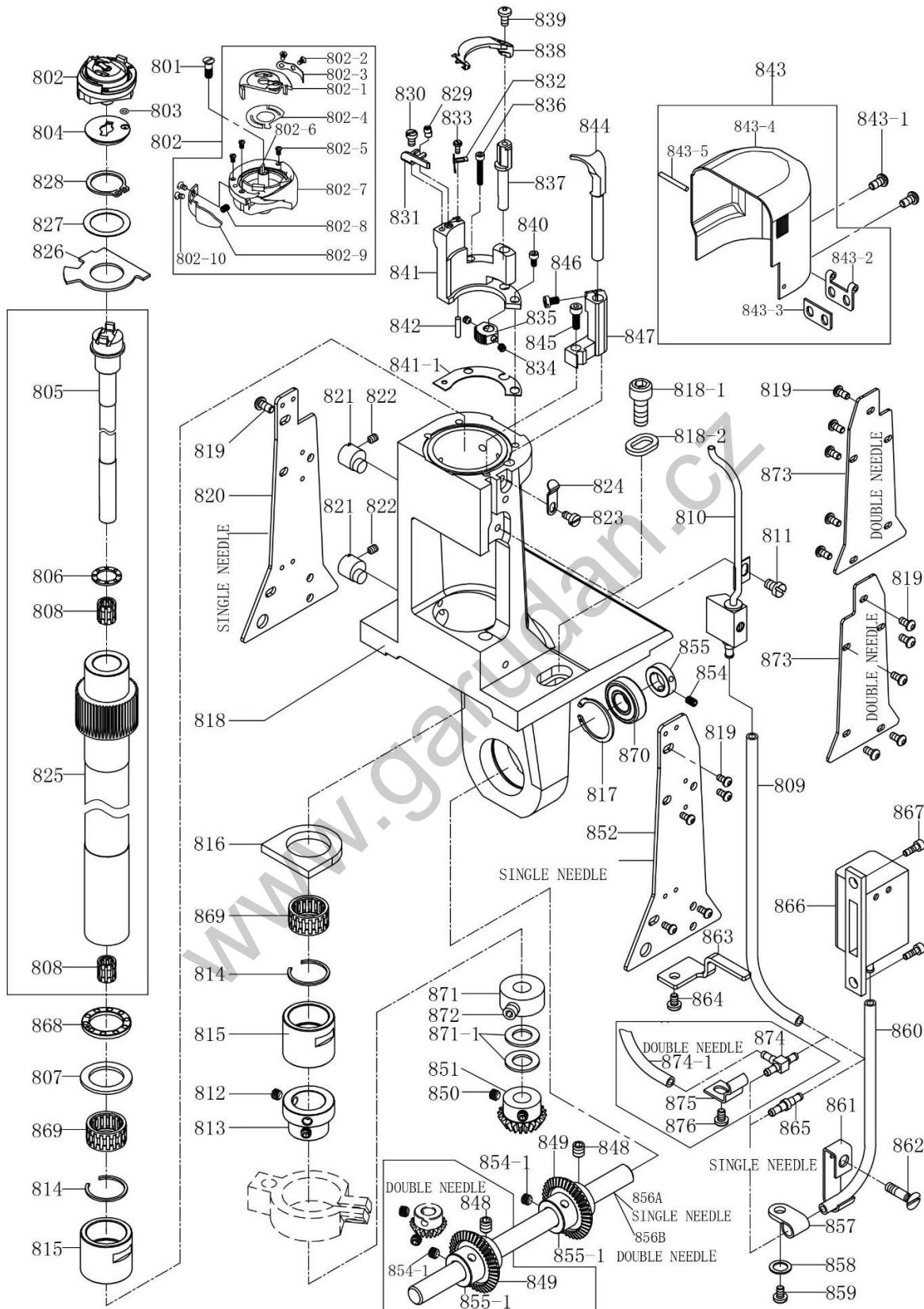
<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
701	GB/T70-85	2	1
702	591-702	1	1
703	591-703	1	1
704	GB/T119-2000	1	1
704-1	GB/T119-2000	1	1
705	591-705	1	1
706	GB/T70-85	2	2
707	591-707	1	1
708	591-708	1	1
709	591-709	1	1
710	591-710	1	1
711	GB/T70-85	2	2
712	GB/T894.1-86	1	1
713	591-713	1	1
714	591-714	1	1
715	591-715	1	1
716	591-330-716	1	1
717	9910-051	2	2
718	591-718	1	1
719	591-719	1	1
720	591-720	1	1
721	GB/T80-2000	2	2
722	591-722	1	1
723	GB/T879.1-2000	1	1
724	9910-037	4	4
725	9910-038	6	6
726	9910-043	2	2
727	9910-039	2	2
728	591-728	1	1
729	591-729	1	1
730	9910-035	1	1
731	9910-036	2	2
732	9910-042	8	4
733	9910-041	2	2
734	GB/T70-85	2	1
735	9910-155	1	1
736	GB/T70-85	1	1
737	9910-168	1	1
738	9910-152	1	1
739	GB/T70-85	1	1
740	591-740	1	1
741	9910-106	1	1
743	9922BFT-743	1	1

**8. RIGHT SIDE BRACKET MECHANISM (1/2)**

**8. RIGHT SIDE BRACKET MECHANISM (1/2)**

<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
801	9910-243	1	2
802	591-802	1	2
803	GB/T3452.1-92	1	2
804	591-804	1	2
805	591-805	1	2
806	9910-251	1	2
807	591-807	1	2
808	9910-252	2	4
809	591-809	1	1
810	591-810	1	2
811	GB/T67-2000	1	2
812	GB/T80-2000	2	4
813	591-813	1	2
814	591-814	2	4
815	591-815	2	4
816	591-816	1	2
817	GB/T893.1-86	2	2
818	591-818	1	1
818-1	GB/T70-85	2	2
818-2	9910-213	2	2
819	GB/T2672-86	10	10
820	591-820	1	0
821	9910-261-1	2	4
822	GB/T80-2000	2	4
823	591-823	1	2
824	591-824	1	2
825	591-825	1	1
826	591-826	1	2
827	591-827	1	1
828	GB/T894.1-86	1	1
829	591-829	1	2
830	591-830	1	2
831	591-831	1	2
832	591-832	1	2
833	591-833	1	2
834	GB/T80-2000	2	4
835	591-835	1	2
836	GB/T70-85	1	2
837	591-837	1	2
838	591-838	1	2
839	GB/T2672-86	1	2
840	GB/T70-85	1	2
841	591-841	1	2

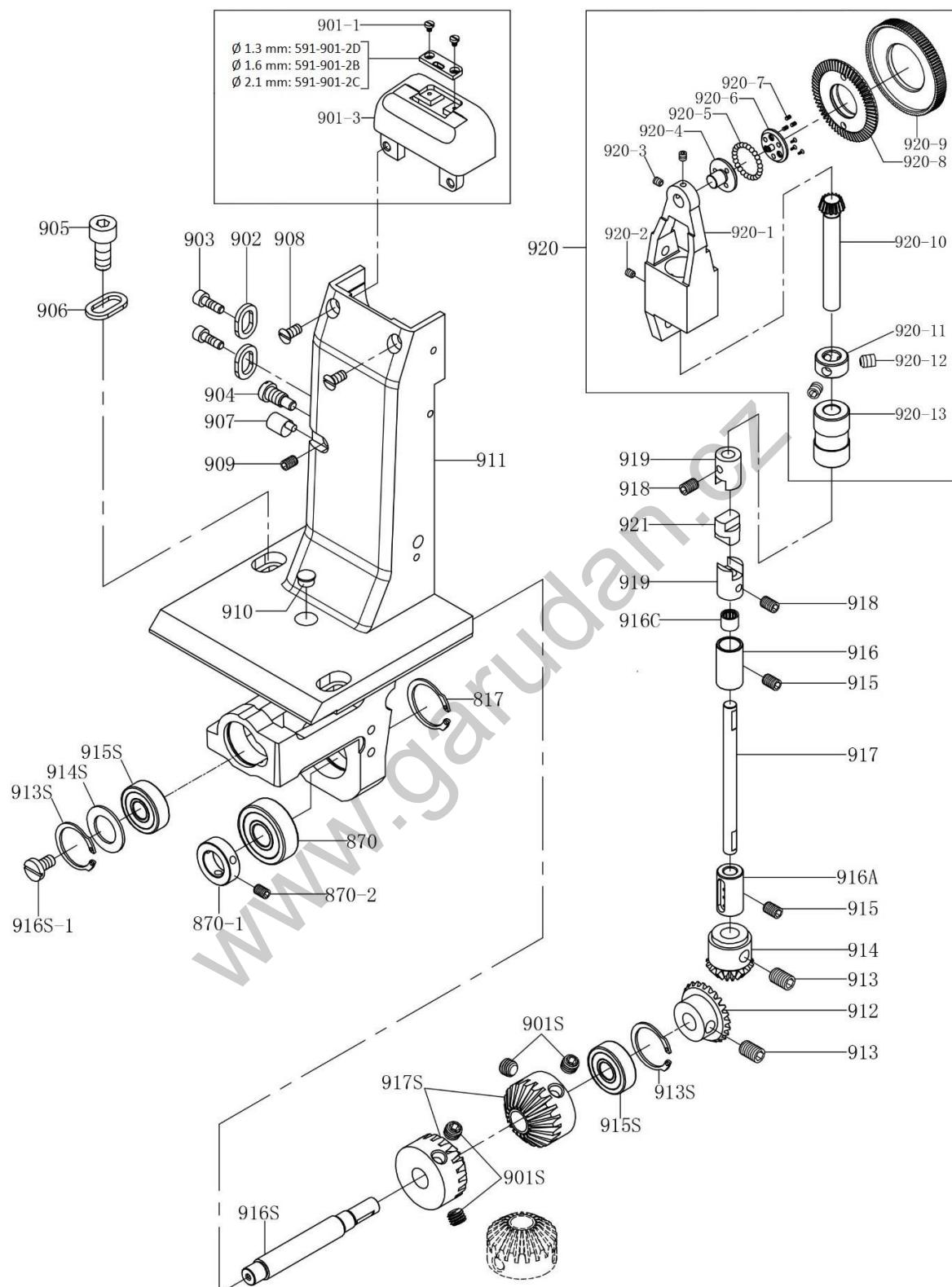
## 8. RIGHT SIDE BRACKET MECHANISM (2/2)



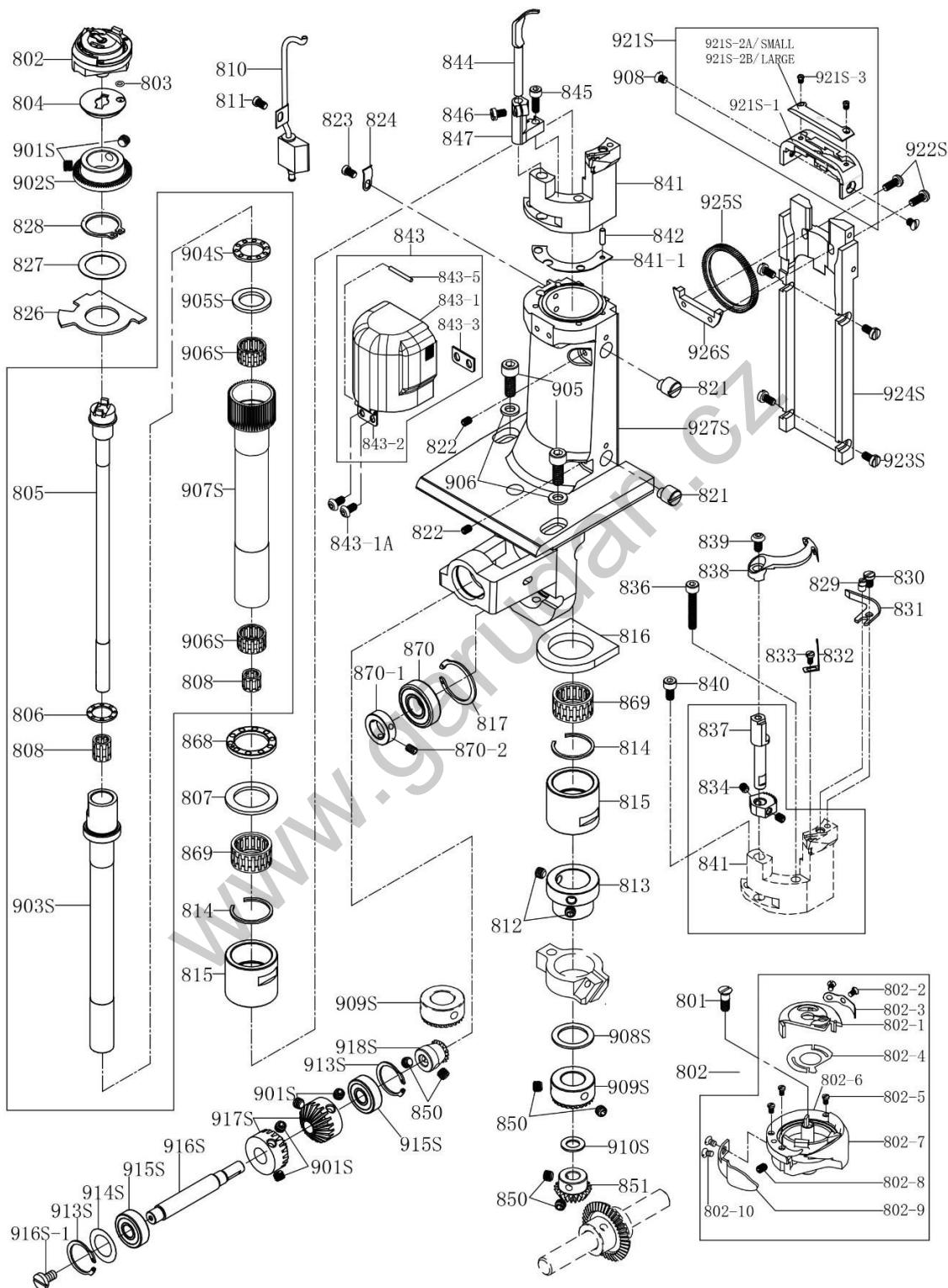
**8. RIGHT SIDE BRACKET MECHANISM (2/2)**

<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
841-1	9922BFT-841-1	2	4
842	GB/T119-2000	1	2
843	591-843A	1	2
843-1	GB/T2672-86	2	4
844	591-844	1	2
845	GB/T70-85	1	2
846	GB/T70-85	1	2
847	591-847	1	2
848	9910-094	2	4
849	9910-258	1	2
850	9910-094	2	6
851	9910-257	1	2
852	591-852	1	0
854	GB/T80-2000	4	4
854-1	9910-094	2	4
855	591-855	2	2
855-1	9910-259	1	2
856A	9922BFT-856A	1	0
856B	9922BFT-856B	0	1
857	591-857	1	1
858	GB/T95-85	1	1
859	GB/T70-85	1	1
860	591-860	1	1
861	591-861	1	1
862	591-862	1	1
863	591-863	1	2
864	GB/T65-2000	1	2
865	591-865	1	0
866	591-866	1	1
867	GB/T70-85	2	2
868	591-868	1	2
869	591-869	2	4
870	GB/T276-94	2	2
870-1	9922BFT-870-1	1	1
870-2	GB/T80-2000	2	2
871	9910-250G	1	2
871-1	9910-72	2	2
872	9910-094	2	2
873	591-873	0	2
874	591-874	0	1
874-1	591-874-1	0	1
875	591-875	1	1
876	591-876	1	1

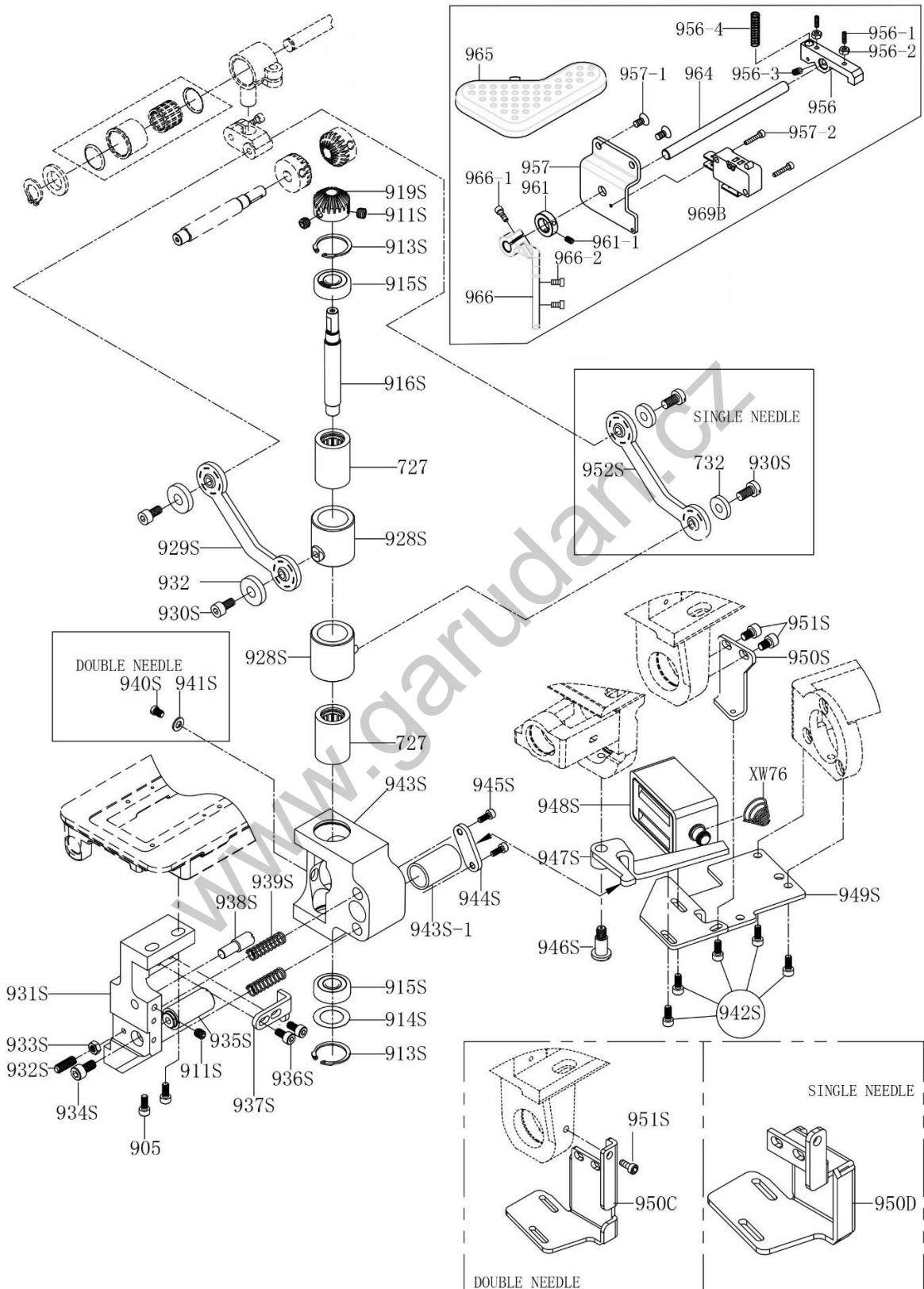
### 9.1 SINGLE NEEDLE CENTRAL BRACKET MECHANISM



## 9.2 DOUBLE NEEDLE LEFT SIDE BRACKET & CENTRAL MECHANISM



## 9.3 REVERSE STITCHING MECHANISM



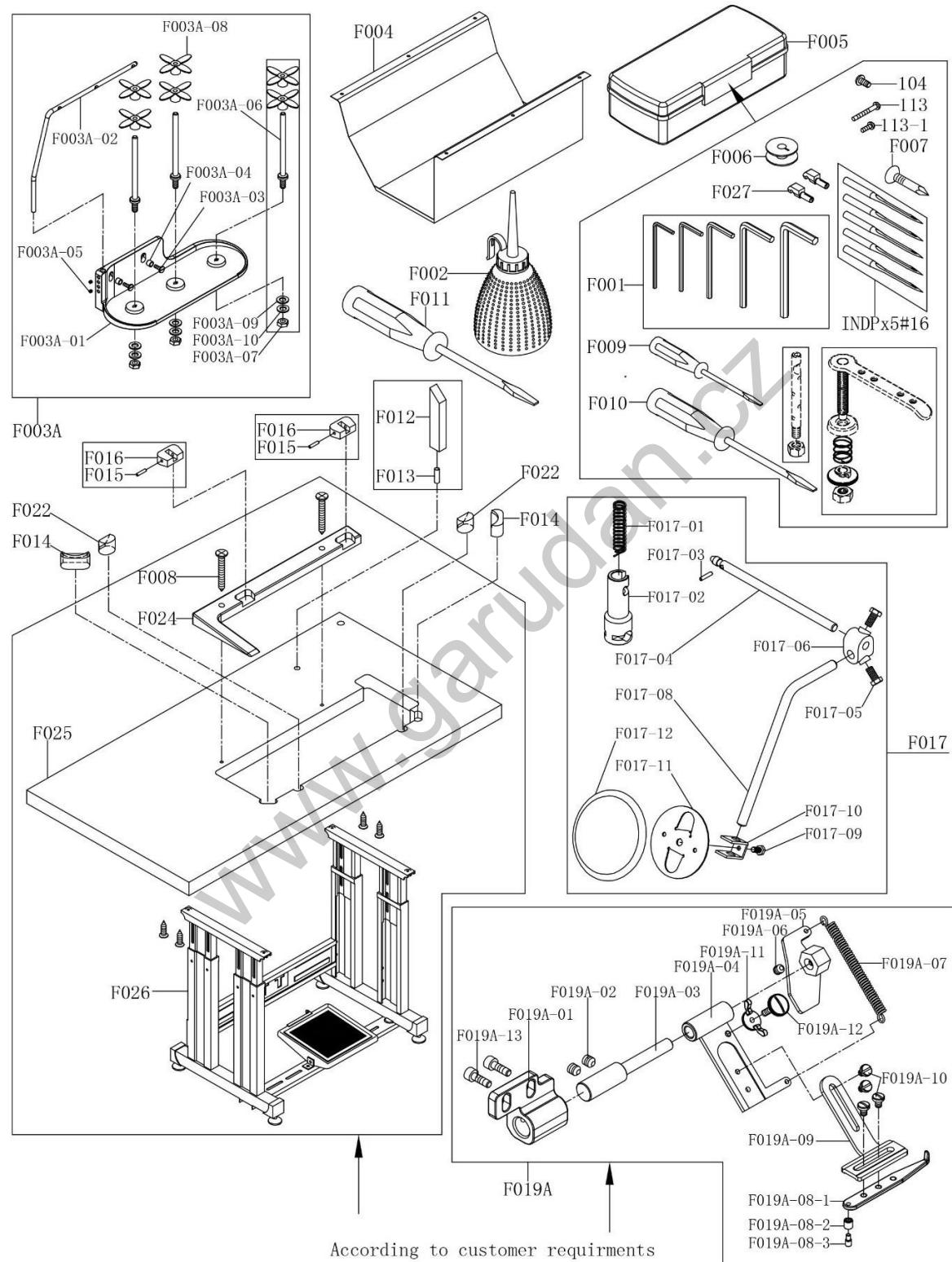
<b>NO.</b>	<b>PART NO</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
902	9910-213	2	0
903	GB/T70-85	2	0
904	9910-209	1	0
905	GB/T70-85	2	2
906	9910-213	2	2
907	9910-210	1	0
908	GB/T60-2000	2	0
909	GB/T80-2000	1	0
910	9910-214	1	0
911	591-911	1	0
912	9910-240	1	0
913	9910-094	4	0
914	Y9910-239	1	0
915	GB/T80-2000	2	0
916	9922BFT-09-916	1	0
917	9910-236	1	0
918	GB/T80-2000	4	0
919	9910-234	2	0
920	591-920	1	0
921	9910-235	1	0
901S	GB/T80-2000	4	6
902S	591-902S	0	1
903S	591-903S	0	1
904S	591-904S	0	1
905S	591-905S	0	1
906S	591-906S	0	2
907S	591-907S	0	1
908S	591-908S	0	1
909S	9910-275	0	1
910S	9910-72	0	1
911S	GB/T80-2000	3	3
913S	9910-220	4	4
914S	591-914S	4	4
915S	9910-221	4	4
916A	9910-238	1	0
916C	168-0596	1	0
916S	9910-224	2	2
916S-1	9910-51	1	1
917S	591-917S	2	2
918S	9910-276	0	1
919S	591-919S	2	2
921S	591-921S	0	1

NO.	PART NO	GP-110-147	GP-124-147
922S	9910-280-1	0	2
923S	9910-81	0	4
924S	591-924S	0	1
925S	591-925S	0	1
926S	591-926S	0	1
927S	591-927S	0	1
928S	591-928S	2	2
929S	591-929S	1	1
930S	GB/T70-85	4	2
931S	591-931S	1	1
932S	GB/T77-2000	1	1
933S	GB/T6170-2000	1	1
934S	GB/T70-85	1	1
935S	591-935S	1	1
936S	GB/T70-85	2	2
937S	591-937S	1	1
938S	591-938S	1	1
939S	591-939S	2	2
940S	591-940S	0	1
941S	591-941S	0	1
942S	GB/T70-85	5	5
943S	591-943S	1	1
943S-1	591-943S-1	1	1
944S	591-944S	1	1
945S	GB/T70-85	2	2
946S	591-946S	1	1
947S	591-947S	1	1
948S	591-330-948S	1	1
949S	591-949S	1	1
950S	591-950S	1	1
950C	9922BFT-950C	0	1
950D	9922BFT-950D	1	0
951S	GB/T70-85	2	2
952S	591-952S	1	0
956	9618-956	1	1
956-1	GB/T 80-2000	2	2
956-2	GB/T 6170-2000	2	2
956-3	GB/T 80-2000	1	1
956-4	335-140	1	1
957	9618-957A	1	1
957-1	GB/T70.3-2000	2	2
957-2	GB/T 70.1-2000	2	2
961	9910-250G	1	1
961-1	9910-94	1	1

NO.	PART NO	GP-110-147	GP-124-147
964	9618-964	1	1
965	9618-965	1	1
966	9618-966	1	1
966-1	GB/T 70.1-2000	1	1
966-2	GB/T 70.1-2000	2	2
969B	591-562	1	1

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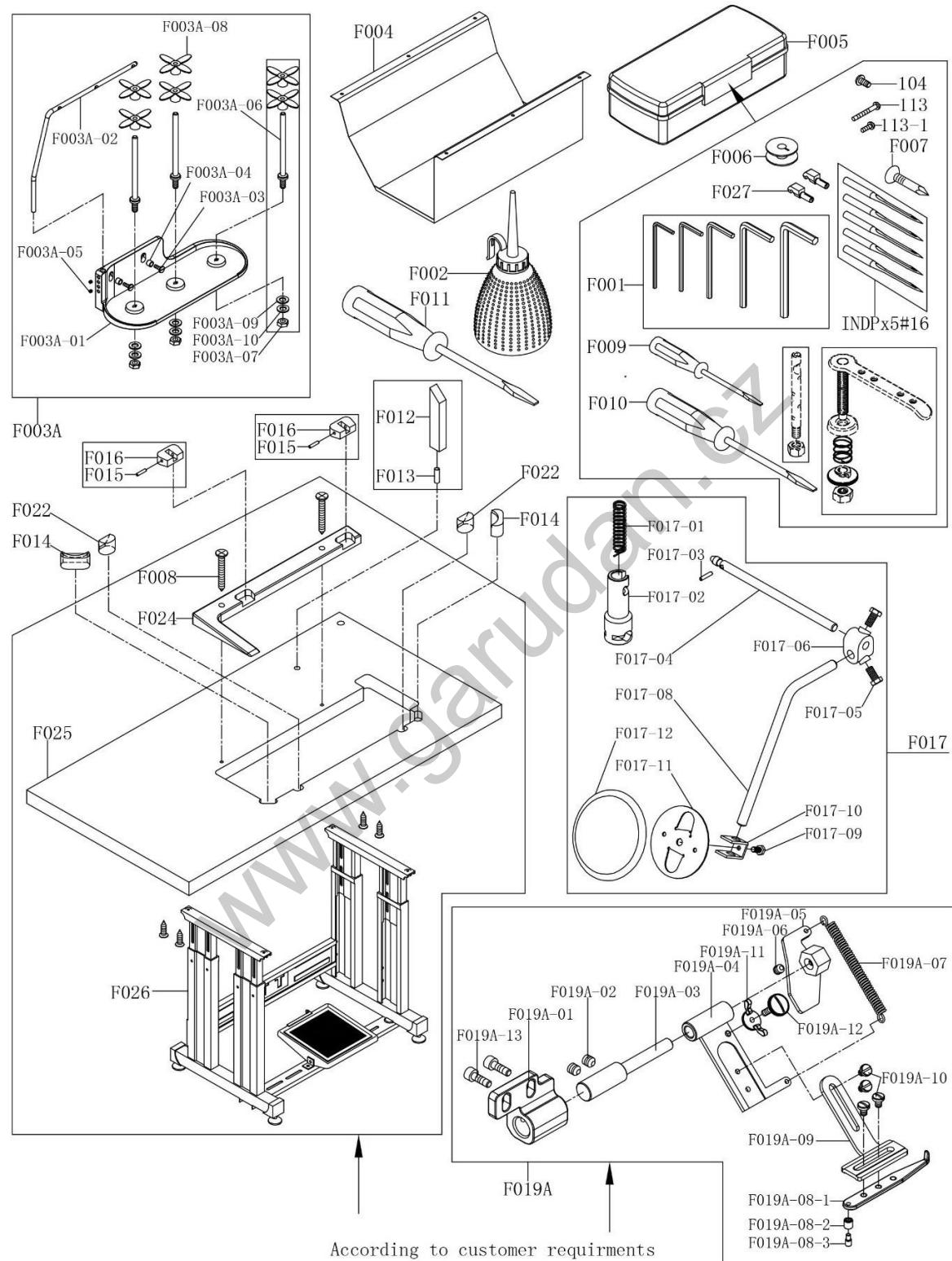
## 10. ACCESSORIES (1/2)



**10. ACCESSORIES (1/2)**

<b>NO.</b>	<b>PART NO.</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
104	GB/T2672-86	8	8
110	591-403	1	1
112	9922-01-112	1	1
113	GB/T70-85	6	6
114	9922-01-114	1	1
115	9910-08	1	1
116	GB/T6170-2000	7	7
117	9922-01-117	1	1
346		5	10
109A	591-122A	1	1
113-1	GB/T70-85	2	2
F001	9910-289		1
F002		1	1
F003A	9922BFT-F003A	1	1
F003A-01	9618-F003B-01	1	1
F003A-02	9618-F003B-02	1	1
F003A-03	9922BFT-F003A-3	2	2
F003A-04	9922BFT-F003A-4	2	2
F003A-05	GB/T80-2000	2	2
F003A-06	9618-F003B-06	3	3
F003A-07	GB/T6170-2000	3	3
F003A-08	9618-F003B-08	6	6
F003A-09	GB/97.1-85	3	3
F003A-10	GB/93-87	3	3
F004	9910-292	1	1
F005	9910-291	1	1
F006	9922BFT-F006	2	4
F007	9910-296	10	10
F008	9910-297	4	4
F009	9910-293	1	1
F010	9910-294	1	1
F011	9910-295	1	1
F012	9910-287	1	1

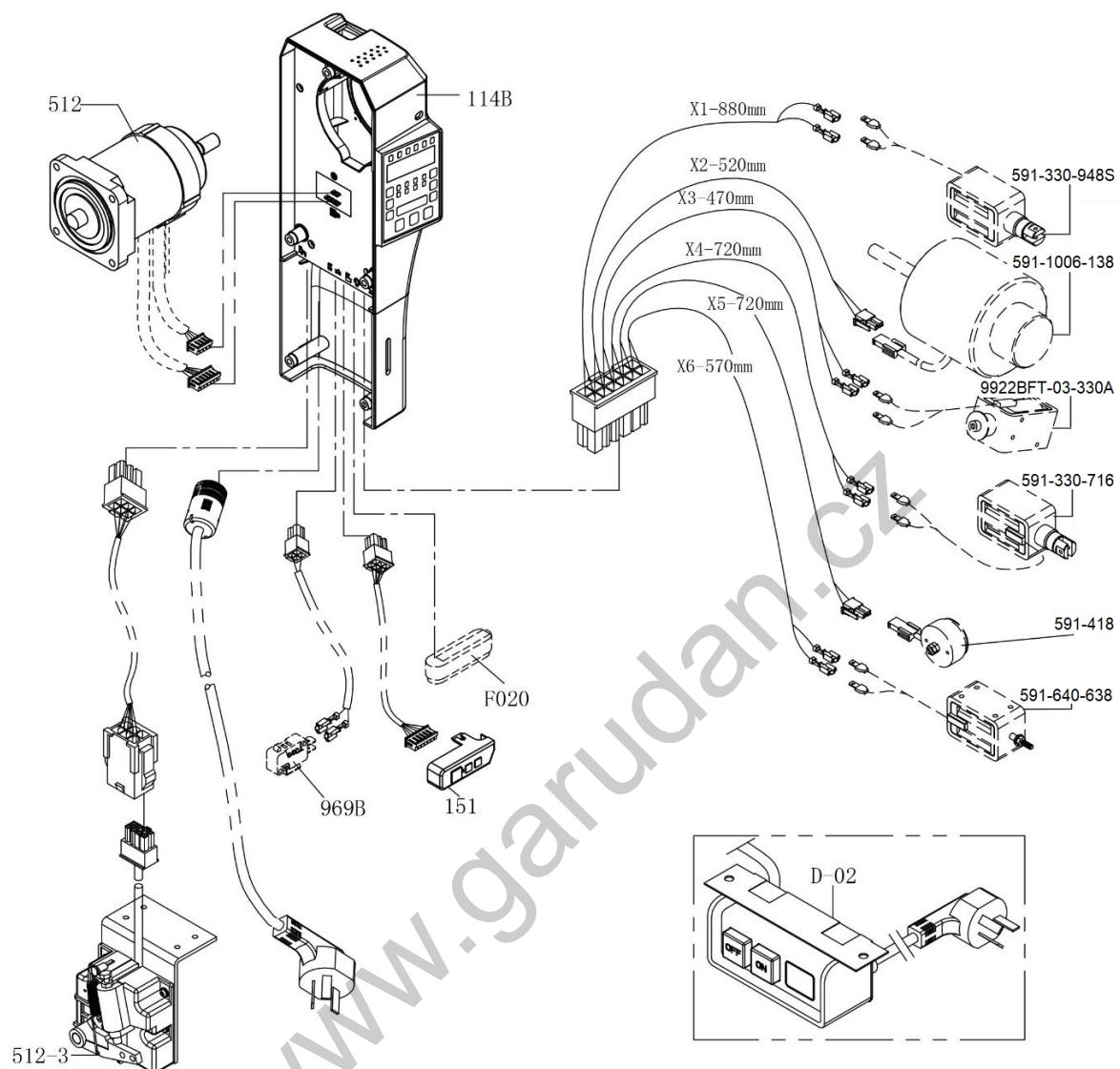
## 10. ACCESSORIES (2/2)



**10. ACCESSORIES (2/2)**

<b>NO.</b>	<b>PART NO.</b>	<b>GP-110-147</b>	<b>GP-124-147</b>
F013	9910-288	1	1
F014	591-F014	2	2
F015	591-F015	2	2
F016	591-F016	2	2
F017	9910-302	1	1
F017-01	9910-302-12	1	1
F017-02	9910-302-11	1	1
F017-03	9910-302-10	1	1
F017-04	9910-302-9	1	1
F017-05	9910-302-6	2	2
F017-06	9910-302-8	1	1
F017-08	9910-302-5	1	1
F017-09	9910-302-4	1	1
F017-10	9910-302-3	1	1
F017-11	9910-302-2	1	1
F019	591-F019	1	1
F022	591-F022	2	2
F024	591-F024	1	1
F025	591-F025	1	1
F026	591.F026	1	1
F027	9910-18B	2	2
F028	591-F028	4	4
F029	GB/T80-2000	1	1
F030	9922BFT-F030	1	1
F031	9922BFT-F031	1	1
F032	9922BFT-F032	1	1
F033	9922BFT-F033	1	1
F034	GB/T70-85	1	1
F035	9922BFT-F035	1	1
F036	GB/T80-2000	1	1

## 11. ELECTRICITY ELEMENTS FIG



1--7/X1	948S/XW71
2--8/X2	138
3--9/X3	330A
4--10/X4	716
5--11/X5	418
6--12/X6	638

12 11 10 9 8 7  
  
 6 5 4 3 2 1

