

AUTOMATIC REBAR TYING MACHINE

OPERATING MANUAL

PP-RT-40

PP-RT-25

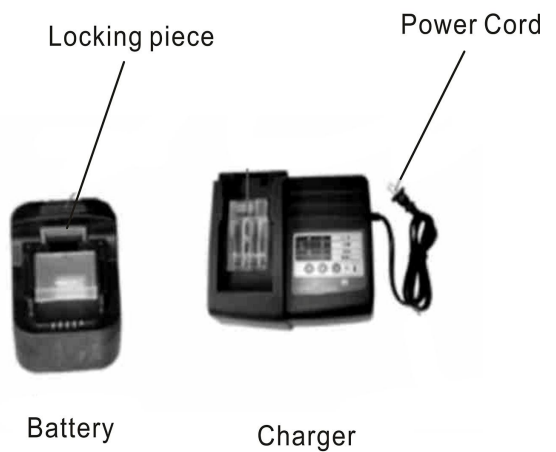
PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THIS MACHINE
TO ENSURE SAFETY WARNING AND INSTRUCTION!!

Contents

1. Each parts name
2. Safety warning
3. Safety lock
4. Product specification and technical parameters
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6. Machine operation and method employed
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9. Care and maintenance

This products is hand-held machine used to pack bars quickly. It is a miniature motor tool possesses the trait of safety and credibility , reasonable structure , advanced craft , simple and convenient operation, high efficiency and easy maintenance . This products consists of four parts including machine body, wire coil, battery pack and charger.

1. Each parts name



2. SAFETY WARNING

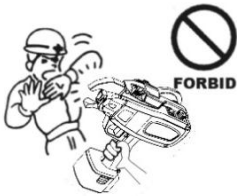
This equipment is a high performance battery operate tool. Failure to follow the warning and instruction may result in electric shock, fire or serious injuries.



1) Always operate the tool with personal protective equipment (safety helmet and eye protection). Use the appropriate safety equipment at all times will avoid body injury.



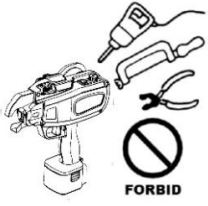
2) Keep children and by standers away while operating tool.
Distraction may cause accident.



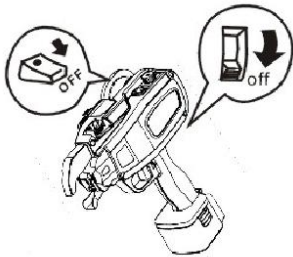
3) Do not aim the tools at by standers or co-workers.
Serious accident may happen due to mishandling of tool.



4) Do not place hand or position the machine mouth (between arm A and curl guide) near the body. This will cause serious injury .



5) Do not attempt to dismantle, modify or perform any maintenance on this tool, any modification may result in deterioration of the tool's performance and may cause serious body injury



6) When the machine is not being used or when abnormalities occur, please turn the switch off. When changing or adjusting the wire coil, or when changing the battery, make sure to turn off the main switch, and lock the trigger.



7) Do not place fingers, hand or body position at the wire coil area. This may result in electrical shock and accident.

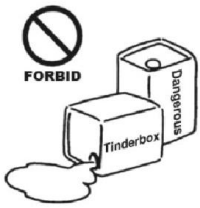


8) Don't operate the tool under rain. This may result in electrical shock and accident.

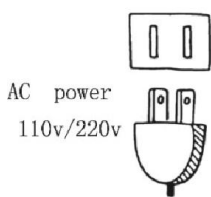


9) Stay alert while working at a loft area. Do not operate the tool under the influence of drug, alcohol and medication . A

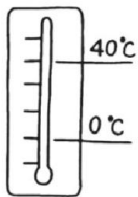
moment of inattention may result in serious body injury.



10) Do not operate the tool at hazardous area such as present of flammable liquid , gas and powder which may ignite and cause fire.



11) The charger is being designed to use AC POWER (50/60 HZ, 110/ 240V). Do not recharge the battery using power supply by generator as this will cause the charger to malfunction .



12) When charging, the ambient temperature shall be at the range of 0 °C -- 45 °C, super-cooling or over-heating environment is not suitable for charging.



13) Continuous use of charger is not allowed as this will shorten the life span of the battery and the performance of the charger . When not in charging mode, the power supply must be switch off.



14) Please do not carry the charger by its power cord. Do not pull out the power cord from power socket with strong force, this will damage the cord and break the wires or

cause a short circuit. A damage cord must be repaired or replaced.



15) Use only specify charger. Using unauthorized charger may result in damage to battery and explosion.



16) Avoid battery terminal from contact with other metal. Trying to recharge with external wire may result in short circuit of the battery.



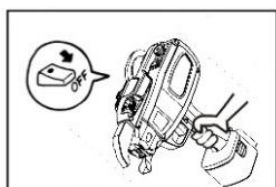
17) Use the protective cap to cover the terminal when not in use.

3. SAFETY LOCK

Make sure the safety features are operational before using the tools. Do not operate the tool if the safety lock is not functional.

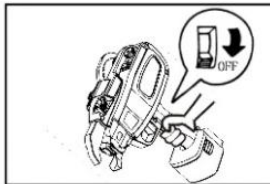
To make sure safe operation , the machine is equipped with the safe devices as follow:

① MAIN SWITCH



Turn the switch on for power supply when in operation.

② Trigger lock



Always turn the trigger lock to “OFF” position when not in use or when changing the coil.

4. Product specification and technical parameters

(1) Main technical parameters

MODEL	PP-RT-40	PP-RT-25
Dimension	285*100*296	285*100*296
Total weight	2.2 kg including battery	2.2 kg including battery
Voltage	14.4 V	14.4 V
Max tying diameter	40 mm	25 mm

(2) The corresponding rebar size for each tying machine

PP-RT-40		Longitudinal steel diameter											
		Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22	Ø25	Ø28	Ø32
Traverse steel diameter	Ø6	√	√	√	√	√	√	√	√	√	√	√	√
	Ø8	√	√	√	√	√	√	√	√	√	√	√	√
	Ø10	√	√	√	√	√	√	√	√	√	√	√	
	Ø12	√	√	√	√	√	√	√	√	√	√	√	
	Ø14	√	√	√	√	√	√	√	√	√	√		
	Ø16	√	√	√	√	√	√	√	√	√			
	Ø18	√	√	√	√	√	√	√	√	√			
	Ø20	√	√	√	√	√	√	√	√				
	Ø22	√	√	√	√	√	√	√					
	Ø25	√	√	√	√	√							
	Ø28	√	√	√	√								
	Ø32	√	√										

PP-RT-25		Longitudinal steel diameter											
		Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø22	Ø25	Ø28	Ø32
Traverse steel diameter	Ø6	√	√	√	√	√	√	√					
	Ø8	√	√	√	√	√	√						
	Ø10	√	√	√	√	√							
	Ø12	√	√	√	√								
	Ø14	√	√	√									
	Ø16	√	√										
	Ø18	√											
	Ø20												
	Ø22												
	Ø25												
	Ø28												
	Ø32												

5. Battery and charger usage

Warning : before assemble and disassemble the battery, do set the main switch OFF position.

- 1) To avoid short circuit to the battery, always cover the battery terminal with the terminal cap when not in use .
- 2) When placing the battery into the tool, press the battery lock before placing the battery into the slot. When require to remove the battery , press the battery lock button before pulling the battery out of from the slot.
- 3) Use 50/60HZ , 110-240V AC power supply for the charger. Fully insert the battery into the charger slot and it will begin to charge automatically and is being indicated by the charging light , it will take

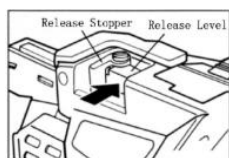
about 75 minutes to fully complete charge a battery.

4) It is recommended to charge the battery at 0-45 °C. Do not charge under extreme cold or hot environment.

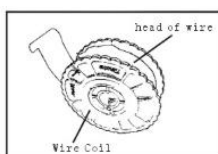
6. OPERATING INSTRUCTIONS

1) installation of wire coil

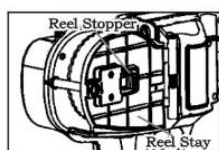
Only the matching tie wire without rust is applied to this machine.



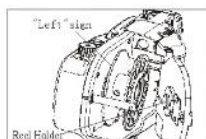
(1) Only use the original wire coil. Using non standard wire coil will cause the tool to malfunction.



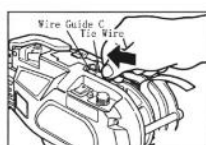
(2) Remove part of the adhesive tape and cut off about 5cm of the wire coil



(3) Press the release lever, and confirm that the release lever is caught in the release stopper.

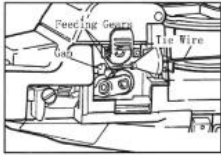


(4) Install the wire coil with the left side facing the tool. Lock the opening by closing the reel holder.

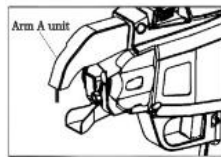


(5) Insert the wire into the wire guide C. (Note: the wire must

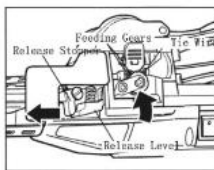
not be bent or curved.)



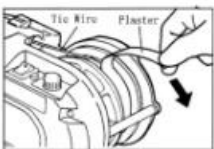
(6) The wire must pass through the wire guide C, in between the two feeding gears till it reaches the end gap. Then push the wire till it reaches the machine arm.



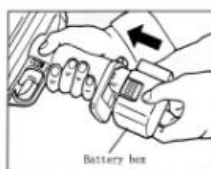
(7) Keep inserting the wire coil into the pipe until it reaches the arm A unit.



(8) Release the release stopper and confirm the release level has returned to its original position. (NOTE: the wire coil must be clamp to the gap of the feeding gears.)

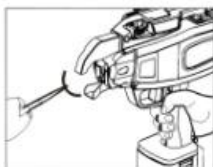


(9) Tear all the adhesive tape from the wire coil.



(10) Install the battery into the machine, when you hear a sound “KA”, the battery has been installed well. (NOTE: make sure the main switch is off, the trigger is locked

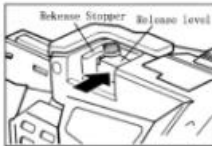
before installing the battery.)



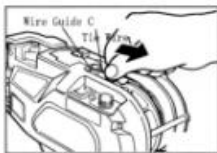
(11) Turn on the main switch, keep the trigger on the

“ON” position, the machine can start work then.

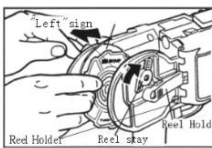
2) How to remove the wire coil



(1) press the release level and confirm the release level is caught in the release stopper.

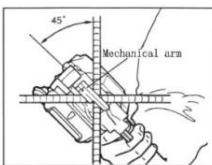


(2) Remove the wire coil.

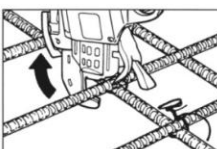


(3) Push the reel stopper to open the reel stay, take out the plastic spool.

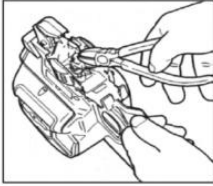
3) Tying procedure



(1) Unlock the trigger lock, keep the mechanical arm on the rebars with a 45 angle at a vertical position to the rebars. Press the trigger and the tool will tie automatically.



(2) Remove the tool when the tying is complete.



(3) Do not press the trigger when the mechanical arm is not on the rebar surface. (NOTE: should this happen, close all the switches, position the trigger lock to “OFF” position and remove the trap wire with a plier inside the mechanical mouth.)

(4) Adjusting the tie and tightness per wrap

There are two tying option on the tool. Two (2) wraps and Three(3) Wraps. Turn on the main switch directly , it is 3 Wraps. Both hold the trigger and turn on the main switch , it is 2 Wraps. There are Ten (10) tightness level and can be adjusted the knob to the desire rap and tightness require.

7. Common faults and removal methods

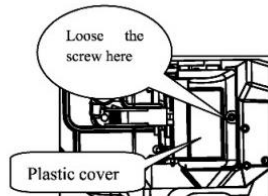
This tool alerts you to the following conditions by means of a warning sound and warning lamp. If the problem is not solved, please contact our maintenance for support.

If any of the following conditions occur, be sure to set the main switch to OFF, and restart it after the problem has been solved.

See below list:

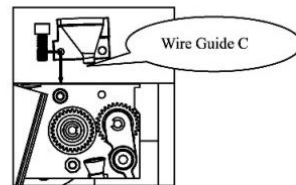
Common faults	Warning voice	Indicator light	Inspecting items	Possible reason	Solve methods
The machine does not work after fit on the wire coil, battery and turn on the power	None	Off	Take out the battery to check if electrode are bright	Oxidation or there is dirty on electrode plate	Use dry cloth to wipe the surface
	Beep	On	Confirm the battery is charged	Battery low power	Change the battery and recharged the changed battery
	Beep beep beep	On off on off on off	Check the wire guide A to see if there is wire head left	The head of wire stopped the wire guide	Use plier to take the head of wire out
The wire can not been sent out	Beep beep beep beep	On off on off on off	Check the curl guide part to see if there is wire caught inside	Tying strength is too strong	Adjust the tying force and clean the caught wire
	Beep beep	On off on off	Check the curl guide	The the curl guide is open	Close the curl guide
	Beep beep beep	On off on off on off	Check the diameter of the wire coil	The dia. Of rebar exceed the max tying dia	Use the proper diameter rebars
Irregular binding and stepping out of curl guide	Beep beep beep	On off on off on off	Check the tightness of wire coil	The wire winded on the wire coil	Clear the winded wire
	Beep beep beep	On off on off on off	Check the wire coil	No wire	Change a new wire coil
	Beep beep beep	On off on off on off	Alarm when press trigger, no alarm when release	Overheating in motor due to long time running	Lam off till the motor cools down
The binding wires fail to cut the wire after tying	None	ON	Check if the wire hits the rebars when tying	The wire by hitting rebars, was repelled	Pay attention so that the wire does not hit rebars.
	None	ON	Check if the cutting parts is in good condition	There is foreign body on cutting parts	Clean the cutting part
	None	ON	Check the diameter of tying rebar	The diameter of rebar is too small	Adjust the tying strength
Tying knot is broken down	None	ON	Check the operation instruction	Wrong operation	Read the operation instruction master the operating method
	None	ON	Check the tying strength	Tying force is too large	Adjust to proper tying force

8 . Replacement of gears



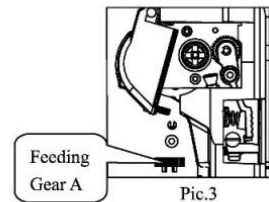
Pic. 1

1. Loose screws fastened in motor plastic cover by spanner and take them out, then open the plastic cover. (As shown in Pic. 1)



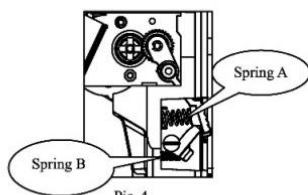
Pic. 2

2. Use spanner to take off wire guide C which is fixed on the plate. (As shown in Pic. 2)



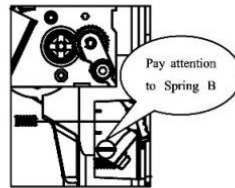
Pic.3

3. Use pliers to take down the E-ring and washer fixed on feeding gear A, then take it out. (As shown in Pic. 3)



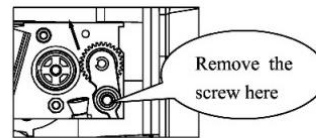
Pic. 4

4. Remove the spring A at the end of Release Lever by pliers. (As shown in Pic. 4)



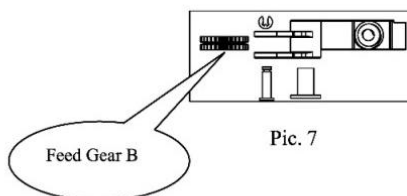
Pic. 5

5. Pay attention not to drop the smaller Spring B at the other end of release lever when you take out Spring A. (As shown in Pic. 5)



Pic. 6

6. Remove hex screws of release lever from the plate by inner hex spanner. Then take out the release lever in the direction of arrow (As shown in Pic. 6).



Pic. 7

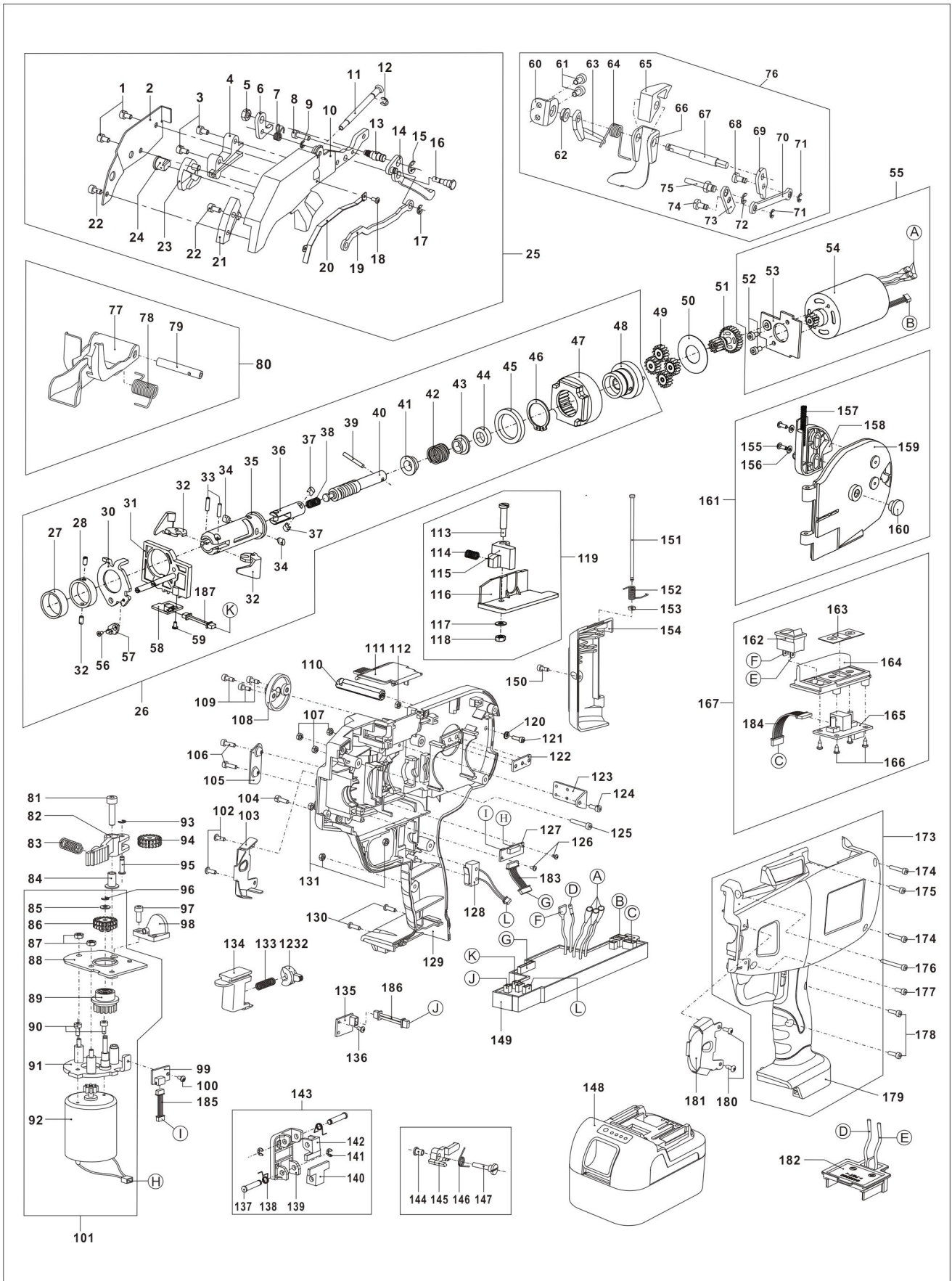
7. After take out release level, remove E-rings by pliers and feeding gears B and then replace a new one. (As shown in Pic.7)

Note: After finish the replacement of gear, all the spare parts must be reinstalled in order.

1. First install release lever. After fix it, fill in spring A at the end of release lever.
2. Install feeding gears, washer and E-ring in sequence
3. Fix wire guide C on the plate
4. Then fix the screw in the plastic cover of motor.

9. Care and maintenance

1. the storeman must carry out a daily inspection before sending or getting back the machine, the user must carry out a daily inspection before using.
2. please maintain the electric tools carefully, check if there is wrong adjustment, locking to movable parts and damage to switch as well as other possible conditions, if so , stop using the machine for repair.
3. please use the charger dedicated by the manufacturer, using other charger or battery may cause fire.
4. improper using of battery can cause liquid flow , if happen to this situation, please send the battery to dedicated place for repair. Do not touch these liquid, once touch it , wash it by clean water . if come into your eyes, go to hospital for treatment immediately, additionally, the effusive liquid may stimulate your skin or cause burning.
5. keep the tool carefully, wipe the plastic outer box in soft cloth with soapsuds after finishing your work. Petrol , alcohol , amyl acetate ect, are forbidden to avoid any damage to the plastic items.
6. keep the tool in its box in dry, clean and non-corrosive gas environment after finish.
7. in the events the tool malfunction or drop in performance, kindly send the tool to the authorized dealer for repair.



Rebar Tier PP-RT-40 PARTS LIST

NO.	PARTS NAME	NO.	PARTS NAME
1	Hex Bolt M3*5	42	Retuen Spring
2	wire holder cover	43	Sleeve for return spring
3	Hex Bolt M3*5	44	Bumper Block
4	Wire Holder	45	Bearing
5	Hex Nut M4	46	Snap ring
6	Movable plate down	47	Planetary gear carrier
7	Torsion Spring	48	Gear Holder
8	Hex Bolt M3*10	49	Planet gear
9	E-Rings ø2.5	50	Gear Press Wheel
10	Arm A holder assy	51	Sun Gear unit
11	Wire guiding Pipe	52	Hex Bolt M3*6
12	E-Rings ø4	53	Fixture plate for motor
13	Fixing Pin	54	Main Motor 550
14	Fixing Pin assy	55	Motor Assy
15	E-Rings ø4	56	Countersunk head screws
16	Locating Pin	57	Magnetic Plate
17	E-Rings ø3	58	Route PWB Unit
18	Connecting Rod	59	Tapping Screw
19	Pan head Screw M2*4	60	Wire coil braking housing
20	Leaf Spring	61	Hex Bolt M3*8
21	Wire guide B	62	Fixture sleeve
22	Hex Bolt M3*10	63	Connecting Plate
23	Cutter assy	64	Braking Torsion Spring
24	Cutter holder	65	Braking block UP
25	Arm A unit assy	66	Braking Block Down
26	Twister Assy	67	Brake Shaft
27	Sleeve Guide	68	Connecting Pin
28	Fixing sleeve	69	Connecting Plate
29	Hex Bolt M3*4	70	Connecting Pole
30	Cutting plate	71	E-Rings
31	Tip Axis Guide Assy	72	E-Rings
32	Hook	73	Wire coil braking plate
33	Fixing Axis ø2.5*12	74	Connecting shaft
34	Bolt	75	Fixing Bolt
35	Inner sleeve	76	Brake housing assy
36	Inner battery cell	77	Curl Guide
37	Fixture Block	78	Curl Guide Torsion spring
38	Fixture Spring	79	Stopper Shaft
39	Pin ø2.5*20	80	Curl Guide assy
40	Lead Screw	81	Hex Bolt M4*14
41	Sleeve for return spring	82	Release Lever

NO.	PARTS NAME		NO.	PARTS NAME
83	Release Lever Comp.spring		124	Hex Bolt M3*6
84	Sleeve for release lever		125	Hex Bolt M3*16
85	Washer ø3		126	Tapping Screw ST2.2*6
86	Feeding gear		127	Connecting Motor PWB
87	Hex Nut M3		128	Micro Switch
88	Partition plate		129	Frame L Assy
89	Plastic Gear		130	Pan head Tapping Screw ST2.9*8
90	Hex Bolt M3*6		131	Hex Nut M3
91	Motor holder assy		132	Trigger lock lever
92	Motor		133	Compression spring
93	E-Rings ø2.5		134	Trigger Switch Unit
94	Feeding driven gear		135	Sensor PWB Unit
95	Step pin		136	Pan head Tapping Screw ST2.2*6
96	E-Rings ø2.5		137	Guiding block Pin
97	Hex Bolt M3*8		138	Torsion Spring
98	Wire Guide C		139	Locating holder
99	PWB for feeding wire		140	Guiding block DOWN
100	Pan-head screw M2*4		141	E-Rings ø3
101	Feeding Motor Assy		142	Guiding block UP
102	Bolt M3*8		143	Telescopic guide assy
103	Left Cover Unit		144	bushing block
104	Hex Bolt M3*10		145	leveraged switch
105	Reinforcing plate		146	Torsion Spring
106	Hex Bolt M3*10		147	Pin for leveraged switch
107	Hex Nut M3		148	Battery assy
108	Reel Guide		149	Control plate
109	Hex Bolt M3*6		150	Hex Bolt M3*10
110	Wire Coil Cover Lock Pin		151	Long pin shaft
111	Window		152	Torsion Spring
112	Hex Nut M3		153	Collar
113	Tight Pin		154	Motor cover
114	Release Lever Comp.spring		155	Pan head Screw M3*8
115	Release Stopper		156	Washer ø3
116	Stopper Base		157	Tight spring
117	Washer ø3		158	Tight plate
118	Hex Nut M3		159	Wire coil cover
119	Stopper Base Assy		160	Locating Pin
120	Washer ø3		161	Wire coil cover assy
121	Hex Bolt M3*8		162	Main switch
122	Nut plate		163	Button Panel
123	Fixing plate		164	Panel holder

