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ZENITHPACK V3 BATTERY POWERED STRAPPING TOOL - 3-ZBST-V3



OPERATING MANUAL / SPARE PARTS

[**CONTENTS**]

1. SAFETY INSTRUCTION.....	2
2. TECHNICAL PARAMETERS.....	4
3. ACCESSORY.....	5
4. OPERATING ELEMENTS.....	8
5. OPERATION.....	9
6. ELECTRICAL CONNECTION.....	12
7. WORN PARTS REPLACEMENT.....	13
8. COMMON FAULTS.....	14
9. DIAGRAM OF WORN PARTS REPLACEMENT.....	15
10. ASSEMBLY PARTS NUMBER TABLE.....	17
11. BREAKDOWN DRAWING.....	21

For your safety, please read the instructions carefully before operating and keep manual for use.

[1. SAFETY INSTRUCTION]

1. SAFETY INSTRUCTION

Please read the matters carefully, if not follow this prompt, it is possible to cause operator injury during operation.



1.1 Battery operation

Environmental protection:

- 1) Please do not put used batteries into household trash can, waste water tank, or burn them.
- 2) Dealers provide battery environmental treatment services.

Short circuit

- 1) Do not leave batteries and other metal objects together.
- 2) Do not open the battery, and store the battery in a dry and anti-frost room. Maximum temperature is 50°C. Please keep dry all the time.
- 3) Do not charge waste battery. Change a new one immediately.

1.2 Eye injury hazard

If you do not wear safety glasses with side shields, it may cause eye damage and even blindness. It requires wearing safety glasses with side shields.



1.3 Operation

Personnel who are not properly trained are not allowed to operate the strapping tool. Before straining straps read and correctly understand the operating instructions. If you do not follow the operating instructions or improperly load the straps, it will cause straps damaged. Please keep your fingers far away from squeezing or cutting areas. Before being familiar with the strapping tool.

1.4 Adhesion position

You should check the pressured adhesion position. Be familiar with adhesion control and regulation. Irregular adhesion may be insecure, which cause serious injury. Please do not ship the packing containers which are not correctly packaged.

1.5 Straps distribution

Please use the specially designed distributing device to distribute the straps. When not in use, please fold the strap end into the distributing device.

[1. SAFETY INSTRUCTION]

1.6 Straps warning

Do not use straps to drag or lift load, which easily lead to personal injury.

1.7 Straps broken hazard

Improper operation, excessive tensioning, using straps not as requires, load sharp corner will cause tightening force lose, or straps broken could eventually:

The operator loses his balance and falls down.

Strapping tool and straps together quickly fly to the operator's face.

⚠ Attention:

- 1) If the load angle is very sharp, please add edge protection.
- 2) Please wind the straps around the suitable load surface.
- 3) When tensioning and adhesion, operating personnel and straps are on the same straight line, there may be hurt by flying straps or strapping tool, so when operating please stand Beside straps and keep spectators far away. Please use recommended straps with good quality in the instruction, with a suitable width, size, and strength. Straps that do not match may cause damage when tensioning.

1.8 Tensioning straps shearing

When shearing straps, please use a suitable shearing tool, and ensure a safe distance with people, and do not stand on the same straight line with straps, and keep away from the straps loose direction. Please use the special tool for shearing the straps. It is not allowed to use a hammer, pliers, hacksaw, axes and so on.

1.9 Fall hazard

Keep your work area clean and tidy. Untidy work area is likely to cause damage hazard. Before tensioning, bad stay or unbalance will be easy to fall, especially in the stair area. So keep body balance. Both feet shall tread on a flat and solid surface. When you feel uncomfortable, do not operate the tool. Please pay attention to the precautions specifically mentioned in work area.

1.10 Strapping tool hazard

- 1) Well-maintained strapping tool is necessary.
- 2) Periodically inspect broken or worn parts, if there are cracking or worn parts, do not use the machine.
- 3) Do not modify the machine, or else it may cause personal injury.

[2. TECHNICAL PARAMETERS]

2. TECHNICAL PARAMETERS

2.1 Description

Manufactured V3 strapping tool is using plastic straps. Manually use strap feeding device to wind the plastic straps around the box (bag). Straps end is inserted into strapping tool and automatically tensioned, separate after friction adhesion.

2.2 Size of strapping tool with battery

Length:	340mm
width:	130mm
Height:	118mm
Weight:	2.6kg
Battery weight:	0.6kg

2.3 Straps material

Quality: flat or embossed PET (polyester) and PP (polypropylene) straps.

Size(mm): 13-16 / 0.4-1.2

Please choose the appropriate size according to strapping tool you purchased.

2.4 Straps strength

Tensile strength: 600-3200N adjustable.

(Maximum value depends on the quality of straps.)

Tensioning speed: 100-200mm/s

Adhesive strength: about 75% of plastic straps.

(Depending on the quality of straps)

2.5 Working temperature

Ambient air temperature is 5 to 45 degree centigrade.

Optimum working temperature is 15 to 20 degree centigrade.

[3. ACCESSORY]

3. ACCESSORY

⚠ Please use the parts and accessories that mentioned in the operating instructions. To use other accessories may hurt you and others.

3.1 Battery powered strapping tool

As some strapping tools may use NiCd (nickel cadmium) or NiMH (nickel metal hydride) batteries, please purchase the battery for this tool according to the following parameters.

Type: Lithium battery Voltage: 14.8V Capacity: 4.0Ah

3.2 Battery charger

Standard charger:

INPUT: 100V-245VAC, 50-60Hz, DC16.8V-3.0A

Charging time:

Lithium battery 4.0A/h, charging time is approximately 100 minutes.

3.3 All types equipped with carton + pearl wool packaging

3.4 Each strapping tool equipped with one set of common operating tools

[**3. ACCESSORY**]

3.5 Suspension System (optional purchase)



6

[**3. ACCESSORY**]

For work suspension position please choose FIG 1.



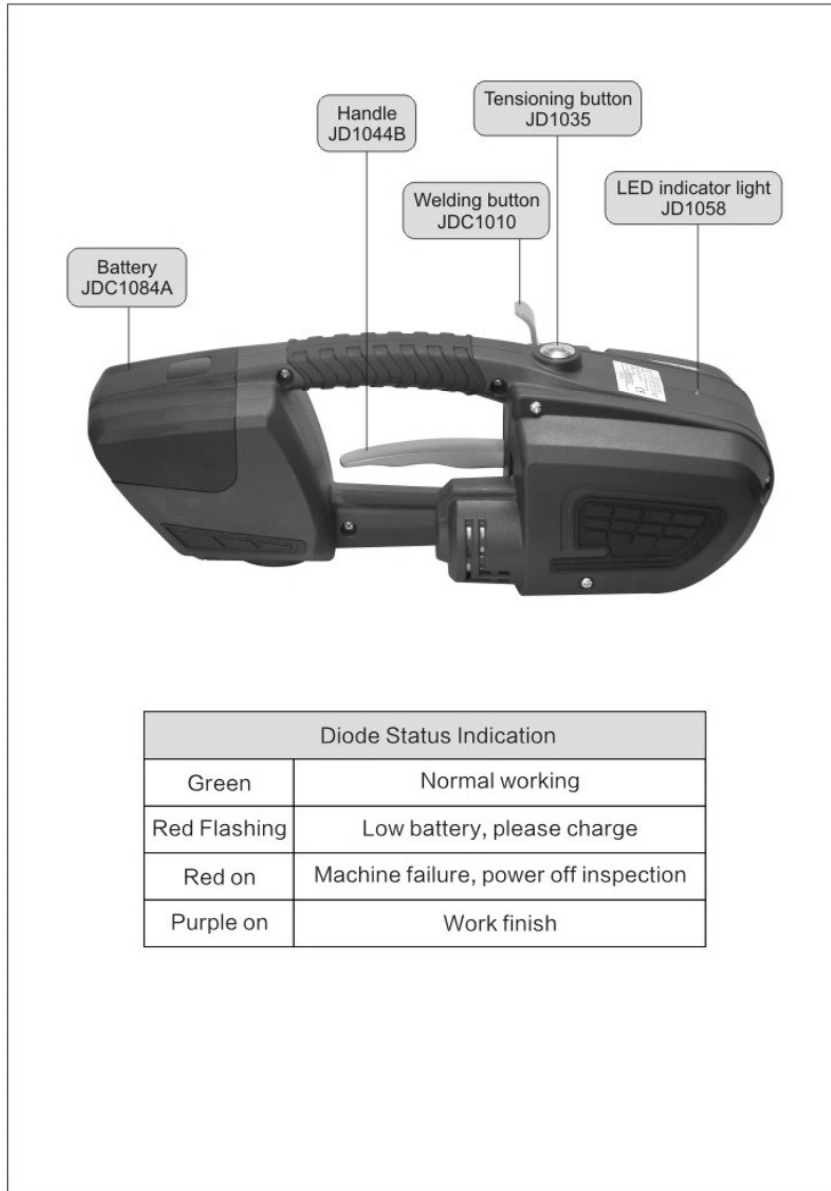
For work suspension position please choose FIG 2.



7

[4. OPERATING ELEMENTS]

4. OPERATING ELEMENTS



[5. OPERATION]

5. OPERATION

5.1 Installation

- 1) Please do not put the strapping tools in the rain!
- 2) For security, the battery is not charged when delivery.
- 3) Before using, please charge. Refer to the separate battery charger instruction manual.

Insert the battery:

- 1) Push the battery box cover assembly upward by arrow direction, and insert the battery into slot from up to down.
- 2) When inserting the battery, electric quantity state will show for a short time.
- 3) Battery charge status is displayed by the LED charging indicator.

Quantity	Indicator light
No-load	Red
1/4	Red flash
1/2	Blue
3/4	Blue
5/6	Blue
1/1	Blue



Remove empty battery

If LED flashes in red when tensioning or welding, which indicates that the battery power runs out, all electrical functions will be stopped.

Adhesion insufficient

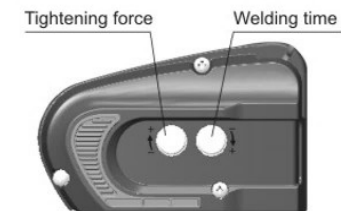
Warning: If the adhesion is not sufficient, please remove the straps!

The battery must be charged.

5.2 Adjustment of welding time and tightening force

Decide different welding time and tightening force according to the size and quality of the straps. The left and right knob can adjust welding time and tightening force.

Turn clockwise is to increase, counter-clockwise is to decrease.

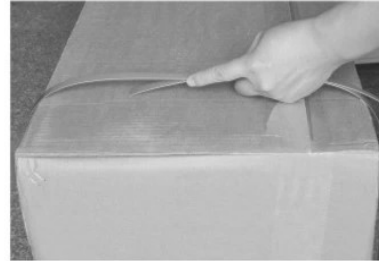


[5. OPERATION]

5.3 Straps winding

Wind the straps as shown in the figure.

⚠ Warning! Keep away from oil, grease and other dirt when welding plastic straps. Dirty straps can't be welded.



5.4 Straps inserting

Lift the handle with your right hand, insert the machine to right side and away from the straps. and two straps parallel stacked, release the handle.



5.5 Straps tensioning

Press the tensioning button, after reaching straps tensioning strength, then release the switch knob.

Tensioning operation can be interrupted or restarted at any time. In the tensioning process, LED displays in blue.

After reaching the desired tension, do not press the switch knob, there is the risk of straps broken.

NOTE: Press tensioning button all the time until the LED displays in purple, tightening protection doesn't affect next step.

⚠ Keep strapping tools equilibrium shifting when tensioning. So please do not obstruct moving direction of the strapping tool.



[5. OPERATION]

5.6 Contact adhesion

Press welding button, the hands leave immediately. plastic strap is welded and the redundant straps are cut off.

During welding, LED displays in blue or purple. Welding is completed.



5.7 Remove strapping tool

Lift the handle and loose straps, pull the machine to right side and away from the straps.

NOTE: The machine will power off automatically after 3 minutes of unpacking operation, and press the tension button to wake up.



5.8 Adhesion control

Normal adhesion control is necessary. You can see the quality of the adhesion with the eyes.

As shown in the following figure:

Correct adhesion:

Weld the entire width of strap, the welding length is about 19 mm. A small amount of molten plastic is allowed to overflow the edge.



Welding time is too short:

The entire width is not welded and the adhesion is insufficient.



⚠ WARNING! Straps with insufficient welding must be removed. Adjust the welding time.

Welding time is too long:

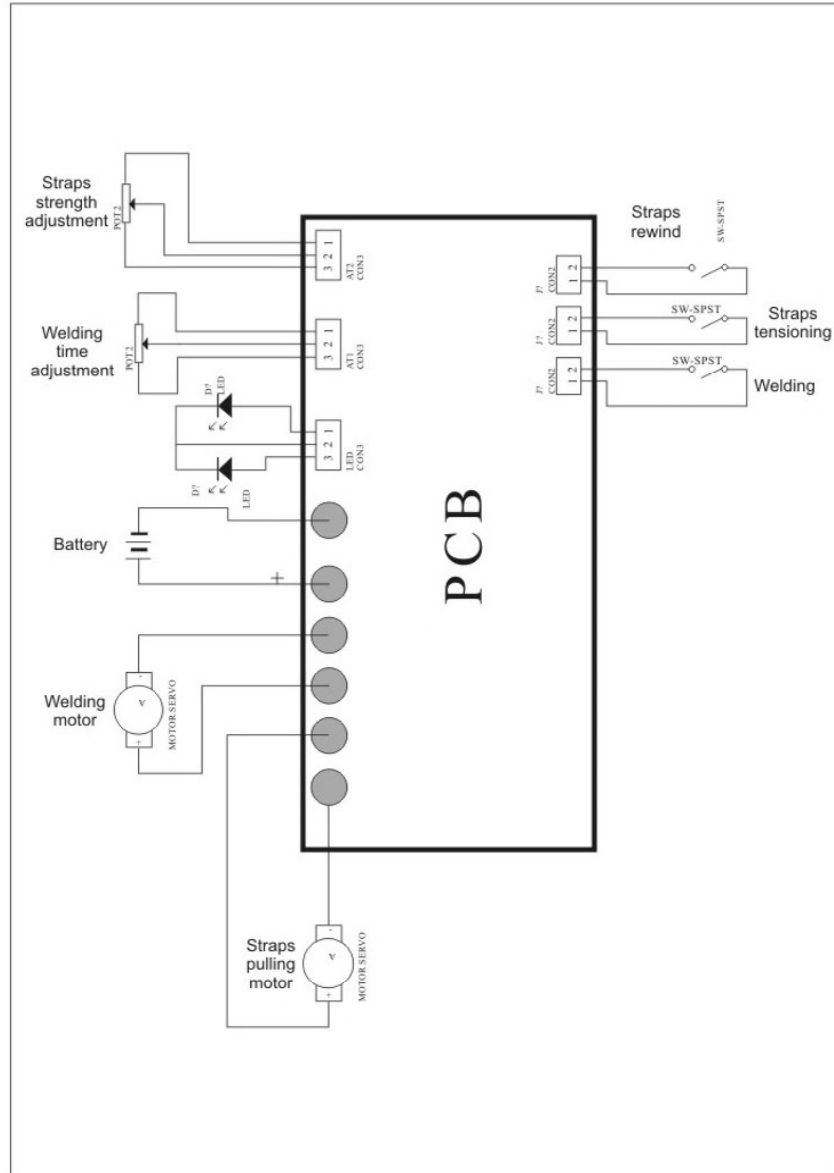
Such as if welding time is too long, straps are overheated, molten plastic overflow two sides. Adhesion effect is affected.



⚠ WARNING! Straps with not enough adhesive strength must be removed. Adjust the welding time.

[6. ELECTRICAL CONNECTION]

6. ELECTRICAL CONNECTION



12

[7. WORN PARTS REPLACEMENT]

7. WORN PARTS REPLACEMENT



Every time maintenance, please remove the battery.

Cutter (JD-1029): First remove the cover screws of left panel and move, remove the screws on the cutter and move, replace the cutter, and assemble in reverse order.

Welding lower toothed plate (JDC-1024): First remove the screws of fixed welded toothed plate (JD-1025) on the base and move, replace the top plate of the toothed plate, and assemble in reverse order.

Tensioning toothed plate (JDC-1014): Remove the screws of fixed tensioned toothed plate on the base and move, replace the top plate of the toothed plate, and assemble in reverse order.

Tensioning wheel (JDC-1013): Remove left and right covers and move, remove the nut of connecting pin shaft and move. Remove the front side panel and move, remove the tensioning wheel, and assemble in reverse order.

Tensioning, adhesion and cutting adjustment

If tensioning slip, remove the screws of fixed tensioned toothed plate on the base and move, replace the top plate of the toothed plate.

Put the factory matched gasket under the tensioned toothed plate and assemble in reverse order.

When using 0.5-1.2mm straps, do not adjust the upper and lower teathed plate welding gap, which will cause bad welding. Remove the left panel cover and move, remove the screws on welding button (JD-1010) and move together. Adjust fulcrum shaft M6 screws on spring support, fixed fulcrum shaft, adjust the spring tightening force by turning M6 nut left and right, and assemble in reverse order. (Machine has been adjusted when leaving factory, please check the welding time)

If the cutter is not smooth, replace the cutter (JD-1029) or replace the cutter compressed spring (JD-1030), refer to the cutter consumables and replace one.

As shown in page 16-17.

13

[8. COMMON FAULTS]

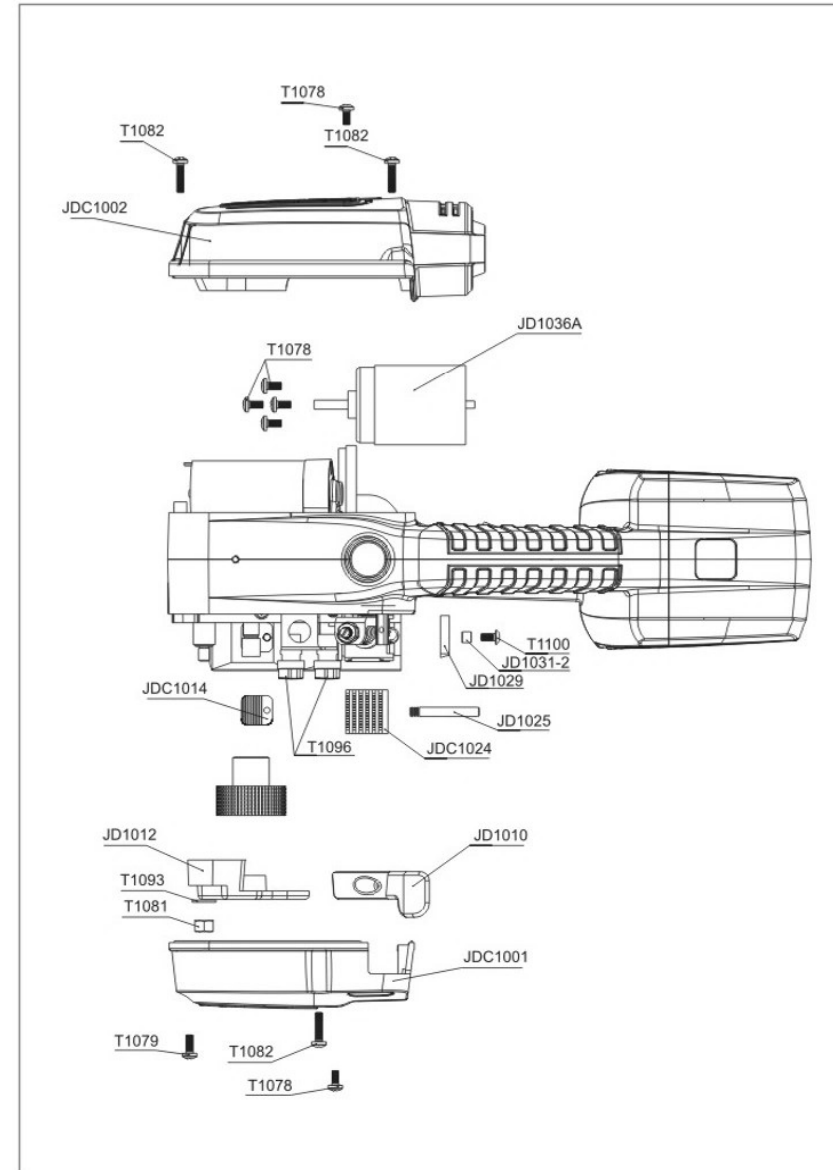
8. COMMON FAULTS

1. Special reason: If the machine stuck in strapping process (LED in red), which results straps stuck in the machine and can't be removed. Immediately cut off power, cut the straps, remove the screws on the left and right panel covers and move, remove the straps, and check the machine. Check the lines on travel switch fall off and replace micro switch.

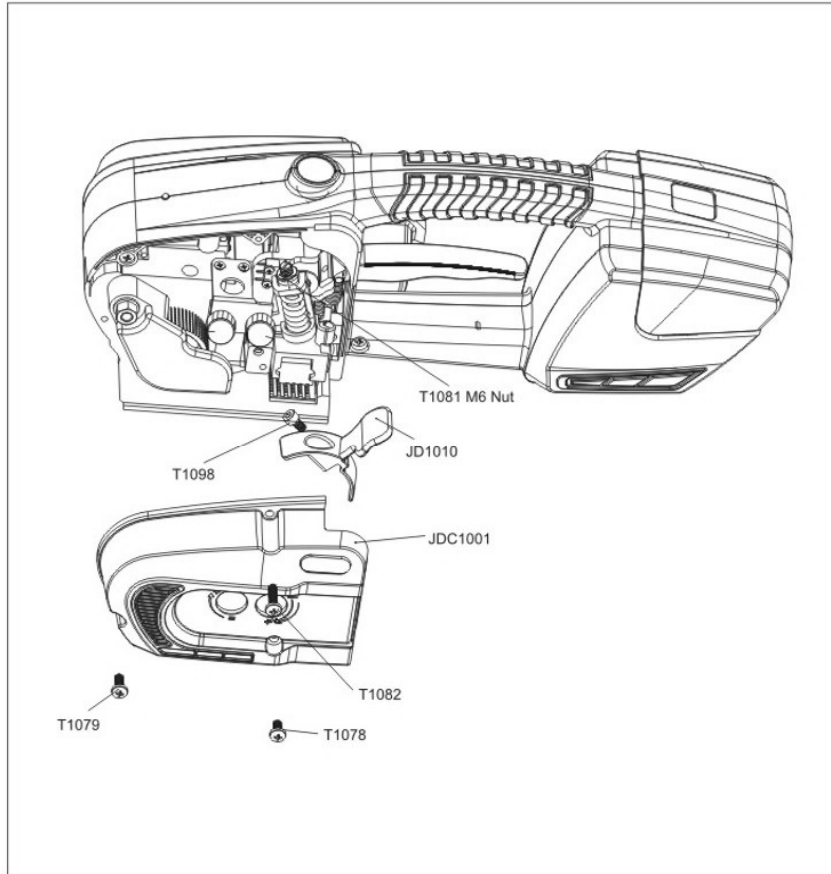
2. Press the welding and tensioning button, if motor doesn't rotate, check the motor and micro switch (T1099), and replace the motor and micro switch (T1111).

[9. DIAGRAM OF WORN PARTS REPLACEMENT]

9. DIAGRAM OF WORN PARTS REPLACEMENT



[9. DIAGRAM OF WORN PARTS REPLACEMENT]



[10. ASSEMBLY PARTS NUMBER TABLE]

Table 1

Material code	Part dwg no.	Part name	Ratio
2010100596	V3001	Body seat	1
1030141600	V3003	Reduction gearbox spring	1
2015000672	V3004	Reducer spring pressure block	2
1030144540	V3011	V3 identification	1
2010013126	JD1012	Left panel	1
2010013573	JD1015	Connecting shaft	1
1030113397	JD1016	Connecting shaft spring	1
1030113524	JD1017	Welding support spring	1
2010013129	JD1018	Welding support	1
2010013143	JD1018-1	Support roller pivot pin	1
2010013144	JD1018-2	Support roller	1
2010013145	JD1019	Welding support locating pin	1
2010013146	JD1020	Welding support shaft	1
2010013128	JD1021	Welding pressure block	1
2010013574	JD1022	Spring retaining ring	1
2010013147	JD1025	Welding fixed screw pin of lower gear plate	1
2010096282	JD1027-A	Welding skeleton	1
2011196283	JD1027-B	Welding chute	1
2010013132	JD1028	Welding sliding gear block	1
2011000171	JD1029	Cutter	1
1030113525	JD1030	Cutter compression spring 13	2
1030113526	JD1030-1	Cutter compression spring 16	1
2010013669	JD1031	Cutter fixing screw assembly	1
2010013148	JD1031-2	Cutter bushing	1
1030113527	JD1032	Chute frame tension spring	1
1020103210	JD1036A	Welding motor	1
2010013539	JD1040	Eccentric shaft	1
2010013540	JD1041	Eccentric shaft pulley	1
2015000579	JD1041A	Pulley A	1
1021511672	JD1043A	Timing belt	1
2010013152	JD1044-4	Handle spring pin	1

[10. ASSEMBLY PARTS NUMBER TABLE]

Continued

Material code	Part dwg no.	Part name	Ratio
2015000650	JD1044A	Handle fixing pin	1
1030131164	JD1044B	Handle	1
1030113673	JD1045	Handle tension spring	1
2010013153	JD1046	Welding pressing block fixing pin	1
1020103209	JD1048A	Tensioning motor	1
2015000511	JD1050B	Gearbox cover	1
2010013137	JD1051	Driving gear	1
2010013138	JD1052	Worm gear	1
1030102659	JD1053	Circlip $\Phi 5$	1
1030102658	JD1054	Circlip $\Phi 4$	1
2010013154	JD1055	Driven gear shaft	1
2010013139	JD1056B	Reduction gearbox B	1
2010013140	JD1057	Turbine	1
2010013141	JD1059	Worm	1
20500100055	JD1060	Reducer bearing cover	1
2010013142	JD1066	Driven gear	1
1040001715	JD1069A	Circuit board A	1
1030113725	JD1070	Battery plug assembly	1
2010013672	JD1070-1	Battery insert	2
2010013543	JD1070-2	Battery plug-in board	1
2010013673	JD1072	Anti collision wear block	1
2010013575	JD1074	Eccentric shaft gasket	2
2010013675	JD1075	Pulley gasket	1
2010013676	JD1082	Tension washer	2
1030113747	JD1086	Pearl cotton	1
1030113680	JD1088	White box	1
1030114683	JD1094	Decent graphic trademark	1
2010054287	JD1095	Potentiometer nut	2
1030144526	JDC1001	Left panel cover	1
1030144527	JDC1002	Right panel cover	1
1030117814	JDC1003-3	Insert platen	1

[10. ASSEMBLY PARTS NUMBER TABLE]

Continued

Material code	Part dwg no.	Part name	Ratio
1031011105	JDC1010	Fusion button	1
2011000162	JDC1013	Tensioning wheel	1
2011000163	JDC1014	Tensioning toothed plate	1
2011000164	JDC1024	Welding toothed plate	1
1020610627	JDC1084A	Battery	1
1030118239	JDC2003	Battery box assembly	1
1030144530	JDC2003-1	Battery box cover	1
1030118241	JDC2003-2	Battery box	1
1030144528	JDC2033	Left housing	1
1030144529	JDC2034	Right housing	1
1020609559	DD95	Charger	1
1030141604	V1-T16	Snap ring for shaft $\phi 7$	2
1030125125	V1-T17	Flat washer $\phi 6$	2
1030144538	V3012	CE Chinese label	1
1030144539	V3013	CE English label	1
1031023599	V3014	V3 Chinese Manual	1
1031023600	V3015	V3 English instructions	1
1030115437	TD03	Hexagon socket head cap screw M3*8	2
1030116576	T1078	Cross half round head screw M4*8	4
1030116577	T1079	Cross flat round head screw M4*10	1
1030113532	T1080	Cross half round head screw M2.5*10	2
1030113533	T1081	Locknut M6 galvanized	2
1030116578	T1082	Self tapping screw M4*16	4
1030116579	T1083	Self tapping screw M3*10	4
1030116580	T1084	Cross half round head screw M2*8	5
1030114835	T1085	Hexagon socket head cap screw M4*15	1
1030113539	T1088	Hexagon socket head cap screw M4*4	1
1030116582	T1089	Cross countersunk head screw M3*6	6
1030117837	T1090	Cross countersunk head screw M5*10	3
1030114836	T1090-1	Cross countersunk head screw M3*12	1
1030116583	T1091	Cross countersunk head screw M3*8	4

[10. ASSEMBLY PARTS NUMBER TABLE]

Continued

Material code	Part dwg no.	Part name	Ratio
1030115440	T1091-1	Cross countersunk head screw M3*10	7
1030100433	T1094	Steel ball ø5	4
1021402421	T1095A	Recheck bearing 10*12*15 wide	1
104000444	T1096	Knob	2
104000443	T1097	Potentiometer	2
1030105808	T1098	Hexagon socket head screw M4*8	1
1020608828	T1099	Fusion switch	1
1030116584	T1100	Hexagon socket half round head screw M4*8	3
1020608830	T1101	Tension button	1
1031012720	T1102	Inner snap ring φ 17	1
1021401815	T1103	Change 606 bearing	2
1021401816	T1104	Needle roller bearing NK10/12	1
1030114857	T1105	Set screw M4*4	5
1021401583	T1106	Bearing WML-5009-2Z	2
1020608831	T1107	Indicator light	1
1021400507	T1108	Bearing 6900	2
1021400711	T1109	Bearing 607zz	1
1021401828	T1110	Bearing BK0810	1
1021400002	T1110-1	Oil bearing	1
1020608827	T1111	Rewind microswitch D2F-01FL	1
1030200331	T1114	Solid wrench 8-10	1
1030113572	T1115	Screwdriver 4-inch cross type interchangeability	1
1030202263	T1116	Allen wrench s2.5	1
1030200298	T1117	Allen wrench s3	1
1030200299	T1118	Allen wrench s4	1
1030113448	T1119	Cleaning cone	1
1021401629	T1120	Composite (oil containing) bearing 10*12*18	2
1030114842	T1121	Cross countersunk head screw M2.5*8	1
1030113851	T1122	Set screw M5*8	1
1030112364	T1123	Set screw M4*3	2
1030102639	T1124	Set screw M4*5	1

