

BATTERY PRESSING TOOL Instruction Manual

MODEL: PZ-1550



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us: **Technical Support and E-Warranty Certificate** www.vevor.com/support

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

TROUBLESHOOTING

FAULT	ANALYSIS	SOLUTION
A. Tool is inoperative	1. Dirty, contaminants, etc in ram area of tool. 2. The battery run out 3. Tool components worn or damaged.	1. Clean hydraulic system 2. Charging the battery 3. Return tool to manufacture or distributor
B. No power during operation or not up to the rated power	1. No oil 2. Dirty, contaminants inside of oil sac. 3. Inner leakage	1. Fill oil 2. Return tool to manufacture or distributor 3. Return tool to manufacture or distributor
C. Crimp not tight	1. Not up to rated power 2. Error select on the pressing jaws	1. Refer the B 2. Return tool to manufacture or distributor
D. Create many scrap	1. Error select on the crimping die	1. Change reasonable crimping die
E. Leakage on the pressing head of plunger	1. Worn on the scaling kits	1. Return tool to manufacture or distributor
F. Running of the motor but no power output	1. No oil in the oil sac 2. Air into the hydraulic system 3. Cold oil	1. Fill or change the oil 2. Return tool to manufacture or distributor 3. Use the tool under -10°C-40°C

MAINTENANCE AND SERVICING

WARNING

Don't disassemble the tool at will. All the damage caused by disassembling without authorization is not within the scope of warranty. Manufacturer will provide a pay-needed maintenance service (Only charge spare parts cost).

1. Keep the tool and spare parts dry. All kinds of liquid corrosion may happen to the shell, metal surface and electrical circuit. If the tool is wet, PLS get out the battery. Reload the battery after the tool is dry.
2. Don't put the tool in overheated and overcooled place. Low and high temperature will make the plastic parts out of shape; shorten the life of electronic components and damage battery.
3. Don't clean the tool with strong chemical cleaning agent.
4. In order to prolong the life of the tool please change the oil per year. Make sure the oil filtered by 120 mesh net or over 30µm strainer. Meantime avoid the dusty into the oil cup.
5. If the tool unused for long time, please make sure the piston stay on its starting position, clear up the tool and paint the rustproof oil both to the tool piston and accessories. Take out the battery and put them into box and store the tool in a dry handle box.
6. After a long time using, the sealing kits will be damaged, if there is leakage please contact with the manufacturer or the distributor to change the sealing kits by expert serviceman.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the month and year of purchase. Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

GENERAL SAFETY RULES

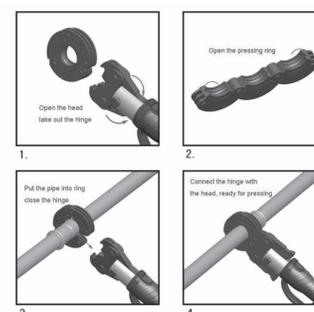
TO WORK IN SAFE CONDITIONS WITH THIS TOOLING IT IS IMPERATIVE TO READ CAREFULLY THE DIRECTIONS FOR USE AND TO FOLLOW THE INSTRUCTIONS IT CONTAINS. IF YOU DO NOT RESPECT THE INFORMATION WRITTEN IN THAT INSTRUCTION MANUAL THE WARRANTY WILL BE CANCELLED.

1. Work area safety

- a. Keep work area clean and clear. Cluttered or dark areas invite accidents.
- b. This tool is not insulated; please do not use it on live conductor.
- c. Please do not use or store the tool under high temperature, or one surrounding filling with corrosive fluid. Pay attention to the sealing kits becoming aging.
- d. Keep children and bystander away while operating the Battery powered crimping tool. Distractions will cause you to lose control.
- e. Do not use or charging the tool around flammable, explosive environment

2. Electrical safety

- f. Make sure the plug matches with the plug seat. Never try any changes on the plug.
- g. Do not put tool, battery and charger under a rainy or humid surroundings, it is easy to trigger an electric shock accident if any water goes into the electric system of the tool.
- h. Do not use electric wire to carry, pull, or to draw out the plug and do not connect the "-" and "+", the damaged or twined wire may cause an electric shock accident.
- i. If the charger was strongly crashed, or dropping down or any other damages happening, please do not try to repair it by yourself, send it back to the authorized service center as soon as possible. The damaged charger may cause an electric shock accident.
- j. The best temperature for charging is between 10°C-40°C. Make sure the air flow



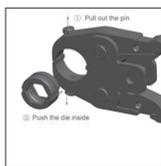
Standard Jaws Types:



Note: When you purchase this tool you can choose any type of the jaws. PLS supply us the relative fitting standard and sizes. Different material and designed fittings pressing effect are different.

Universal Jaw is split. The jaw is with interchangeable die. It can be exchanged according to the size you want.

Please refer the illustration For Economic Type below:



Please refer the illustration For Ring Type below:

of the battery and charger are uncovered during charging.

- k. Please cut off the power of the charger each time to reduce the hazard from child or the person who not expert on the tool.
 - l. Do not wait until the battery runs over for recharging, the recharging will caused the battery does not working anymore. Please keep the battery out of the tool to avoid the power discharge.
 - m. Please do not burn the battery or make it being short-circuited, it may cause explosion.
 - n. Do not use the waste battery otherwise it will cause the electric shock.
 - o. Do not disassemble the battery and charger. If any problem please contact with manufacture or agent.
- 3. Personal safety**
- p. Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while you are tired or still under the influence of drugs, alcohol or medication. A moment of inattention may result in series personal injury.
 - q. Use safety equipment. Always use safety equipment such as mask, helmet, safety cap, insulating shoes and etc to reduce the risk of personal injury.
 - r. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes jewelry or long hair can be caught in moving parts.
 - s. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool operation. If damaged, have the tool repaired before use. Many accidents are caused by poorly maintained power tools.
 - t. Please use the tool properly, the tool with correct power will do the job better and safer at the rate for which it was designed.
 - u. Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.

4. Service

Have your Battery Powered Pressing Tool serviced by a qualified service technician using only identical replacement parts. This will ensure that the safety of the Battery Powered Pressing Tool Kit is maintained.

UNDERSTAND YOUR TOOL

PZ-1550 is a tool for connecting stainless steel pipe, XPAP, PEX pipe. It is powered by Li-ion, actuated by motor and controlled by MCU. With a high pressure hydraulic system, it is a perfect tool to be used in heating installations.

1. Specification

Max. crimping force:	32KN
Stroke:	40 mm
Pressing range(DN, mm)	Thin-wall stainless steel pipe, copper pipe: 12-54mm Pex pipe, XPAP: 12-108mm
Oil Capacity:	115 ml
Hydraulic oil:	Shell Tellus S2V HV15
Ambient temperature	-10-40°C
Battery:	DC 18V 3Ah, Li-Ion.
Time/crimp:	4S(DN25-304)
Charging voltage:	AC 100V~240V; 50~60Hz

V Type

Pressing jaw Universal Jaw+ Interchangeable die (✓)	V 15	800250
	V 18	800260
	V 22	800270
	V 28	800280
	V 35	800290
	V 42	800300
V 54	800310	

VP Type

Pressing jaw Universal Jaw+ Interchangeable die (✓)	VP 16	800320
	VP 20	800330
	VP 25	800340
	VP 32	800350

G Type

Pressing jaw Universal Jaw+ Interchangeable die (✓)	G 16	800360
	G 20	800370
	G 26	800380
	G 32	800390

RF Type

Pressing jaw Universal Jaw+ Interchangeable die (✓)	RF 12	800400
	RF 16	800410
	RF 20	800420
	RF 25	800430

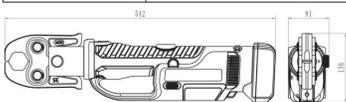
SV Type

Pressing jaw Universal Jaw+ Interchangeable die (✓)	SV 15	800440
	SV 20	800450
	SV 25	800460
	SV 32	
	SV 40	800470
	SV 50	800480

PRESSING JAWS:

TH Type			
	Pressing Jaw (✓)	TH 16	800010
	Universal Jaw+ Interchangeable die (✓)	TH 20	800020
		TH 26	800030
		TH-32	800040
U Type			
	Pressing Jaw (✓)	U 16	800050
	Universal Jaw+ Interchangeable die (✓)	U 20	800060
		U 25	800070
		U 32	800080
H Type			
	Pressing Jaw (✓)	H 16	800090
	Universal Jaw+ Interchangeable die (✓)	H 20	800100
		H 25	800110
		H 32	800120
B Type			
	Pressing Jaw (✓)	B 16	800130
	Universal Jaw+ Interchangeable die (✓)	B 20	800140
		B 26	800150
		B 32	800160
M Type			
	Pressing Jaw (✓) Universal Jaw+ Interchangeable die (✓)	M 12	800170
		M 15	800180
		M 18	800190
		M 22	800200
		M 28	800210
		M 35	800220
		M 42	800230
		M 54	800240

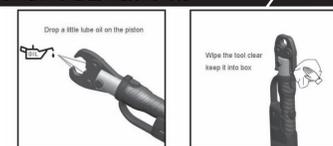
Charging time:	Approx. 1 hours
Net weight:	3.9kgf (without jaw)
Size:	542x 136x 81mm
Accessories:	
Battery:	2 pcs
Charger:	1 pc
Sealing ring of cylinder:	1 set
Sealing ring of safety valve:	1 set



2. Description of components:



Parts No.	Description	Function
1	Jaw	For pressing, interchangeable jaw
2	Fixed pin	For fixing jaw
3	LED	For lighting
4	LED indicator	For indicating the operating condition and battery discharging situation.
5	Trigger	For starting operation
6	Retract button	For manual retracting the piston in case of an incorrect operation.
7	Battery	For supplying power, rechargeable Li-ion (18V) .



Special suggestion:

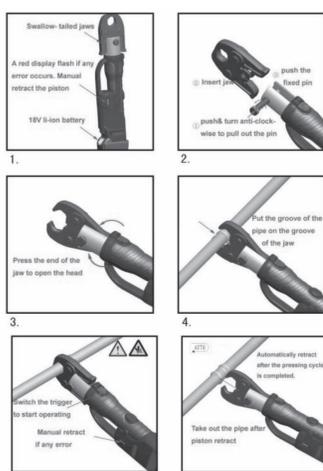
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The tool is controlled by one key. Press the trigger to start working; Piston comes back automatically after finish pressing. Losing the trigger means stop forcing pressure. Press retract button, piston fully comes back.

CAUTION

- 1) This tool should not be knocked at any part. It is necessary to inspect the tool before the operation to eliminate adverse factors (damage, aging, lacking of spare parts, inaccurate calibration, or locking) which may harm the tool. It must be stopped if any problem happened till the problem is solved.
 - 2) Don't disassemble the stop screw in the head. It is used for stopping head dropping out. Don't use the jaw if it is wearing.
 - 3) During pressing, the active ram pin should be fully inserted into the head to prevent it sliding out.
 - 4) During pressing, the annular groove of the pipe with O-ring inside is positioned in the annular groove of the jaws and for indicating the compression point.
 - 5) Make sure that all the parts are clean without any oil, dust, especially on the handle and control parts, to avoid the tool drop easily during the operation.
 - 6) The built-in relief valve was strictly tested. User mustn't adjust pressure by himself. If pressure is not enough, it should be adjusted by the expert serviceman.
- Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.

2. Usage of the tool



3. Function description

- MCU –automatically detect the pressure during operation and provide Security protect, shut off the motor and reset automatically after operation. Auto reset- Release the pressure automatically, retract the piston to the starting position when reached the max output.
- One key control-press the trigger to start working, losing the trigger means stop forcing pressure, piston stop moving.
- The unit is equipped with a double piston pump which is characterized by a rapid approach of the die towards the connector and a slow crimping motion.
- Suspend—finish working or withdraw the hand from the trigger or any accident happened, the device inside of the tool can stop power supply.
- One significant sound will be heard and a red display flashes if any error occurs or lower power being (Ref. table 1)
- Per time pressing on the trigger, the LED will lighting for 20 s.
- The overall structure is compact with human body human engineering design. Antiskid rubber in the handheld part and the optimization designed emphasis make the operation more easy
- High-performances Li-ion battery in strong power supply. No discharge memory effect, Ultra lower power consumption standby design keep the tool 6 months storage, meanwhile over discharge device prolong the life span of the battery.
- Micro computer control system with the feature of self-pressure detecting, double protection during operation, counting and realize the exchange between computer with data by the converter.

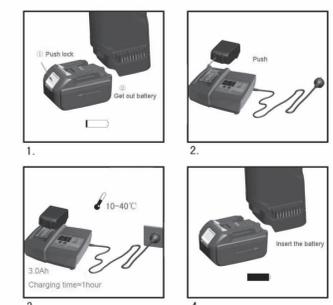
TABLE 1 Signal& Implication

Series No	Signal	Status	Instruction	What it means
1	green*	Flash twice	Switch on (plug in)	Self-checking, tool in normal
2	green*	Light normally on	Startup status	In working order
3	red*	Continuously flashing	Cannot force& relief pressure	①Pull out plug and plug in to restart tool ②Need maintain
4	green*	Flash 3 times X3	Reminder of maintenance after 30000 times pressing	Contact manufacturer or dealer to correct& maintain
5	red*	Light normally on	Compulsory maintenance and unlock	Same as series 4
6	white*	30s delay	lighting	In working order

OPERATING INSTRUCTION

Carefully check shell of the charger and battery and the tool. Also the head of the tool, connection of the battery etc. to assure safety.

1. Charging



The detail of the charging information, please refer the manual (MANUAL FOR CHARGER)

CAUTION

The battery can be used for hundreds of times, when the life span reduced obviously, please to a new battery please. Charge the battery in time to avoid it to be used up absolutely; otherwise it will become useless forever. If the battery not be used for a long time, it will discharge automatically, so take out the battery from the tool and make sure to charge it one time per/each quarter.