

**CORDLESS DRILL**  
**PA12LiS, PA12Pro, PA18Pro, PI-18BL, PA18BL, PA212, PA214**  
**OPERATING MANUAL**

**PURPOSE**

Manual drilling machine with electric battery (screwdriver) (hereinafter - the "machine") is intended for wrapping / loosening screws and bolts, drilling holes in a variety of construction materials (including metal, wood, plastic, etc.). The machine is intended for domestic and industrial use. The machine is capable of infinitely variable speed spindle operation and change the direction of rotation is reversed (reverse), and the change in torque spindle.

Attention! The machine has a self-contained power source - the battery, the life and safety of operation of which depends on strict compliance with the operating conditions established by this passport.

The machine is designed for operation at an ambient temperature of + 10 ° C to + 40 ° C and a relative humidity of 80% and the absence of direct exposure to precipitation and excessive dust in the air.

**SAFETY DURING OPERATION WITH THE TOOL**

Attention! Before using the product, read and follow these instructions.

- Maintain order in your workplace. Cluttered is the cause of accidents.
- Consider the impact of environmental factors. Do not expose power tools and inside it to water or other liquids, as well as precipitation.
- Do not use in areas with explosive or chemical environments.
- Ensure good lighting.
- Beware of electric shock.
- Avoid touching at the same time the power tool and earthed objects, such as pipes, heating element.
- Keep children and unauthorized persons away from work area.
- Ensure safe storage of your tools. The tool must be stored in a dry place where the temperature is above 0 ° C and should not be accessible to children.
- Choose the right tool. For heavy duty applications, do not use too thin instruments. Do not use tools for purposes for which they were not intended, for example, do not use circular saws for felling and limbing.
- Wear appropriate work clothing. Do not wear too loose clothing or jewelry. They can be caught in moving parts of the tool. When working in the open air is recommended to use rubber gloves and non-slip footwear. Wear protective glasses.
- Do not expose the charger cable from damage. Do not carry a charger with

the USB cable, do not use the cable for pulling the plug out of the socket. Do not let the cable with hot and oily surfaces and sharp edges.

- Securely fasten the item. Use clamps or a vice for holding the hard part.
- When working with a tool keep proper footing and do not try to reach items that are out of reach.
- Perform a thorough care of your instrument. Keep your tools clean and in order. Follow the instructions for maintenance and replacement parts. Regularly check the condition of plugs and cables and replace them if necessary, refer to a specialist.
- Turn off the charger. At the end of the work, after charging the battery, unplug the charger. Avoid accidental starting of the tool.
- Do not carry tools in the position in which the finger is on the switch.
- Check your instrument for any damage. All items must be properly collected and to comply with all the conditions that guarantee the perfect functioning of the product. Check on whether the operation of the moving parts, you get them from seizing up. Do not use the tool with the switch. Damaged switches must be replaced.
- Do not drill the wall or other surface, where the electrical wiring.
- If this situation is unavoidable, turn off all the fuses and / or circuit breakers, through which power is applied to the given workspace.
- If the drill / nozzle jammed during operation, immediately turn off the drill, release the drill and then continue.

Attention!

- For your own safety, use only specified in this manual or the manufacturer tool accessories and options.
- Repairs should only be carried out by experts, otherwise you risk getting hurt.

### **BATTERY / CHARGER.**

- Before using the charger, make sure that the electrical correspond to those indicated on the label of the device.
- To prevent damage to the battery, we recommend that you use only chargers under the brand name «Vega».
- Do not use a battery charger having a breakdown.
- Do not carry out charging in damp or wet areas. Do not leave the charger in the rain or snow.
- You can check the temperature limits for the use of the battery on the existing color label on it.
- Do not touch the exposed parts of the body leaked from the battery fluid.

In case of contact immediately wash with soap and water, then lemon juice or vinegar. In case of contact with eyes should be flushed with water for at least 10 minutes, and then consult an eye specialist.

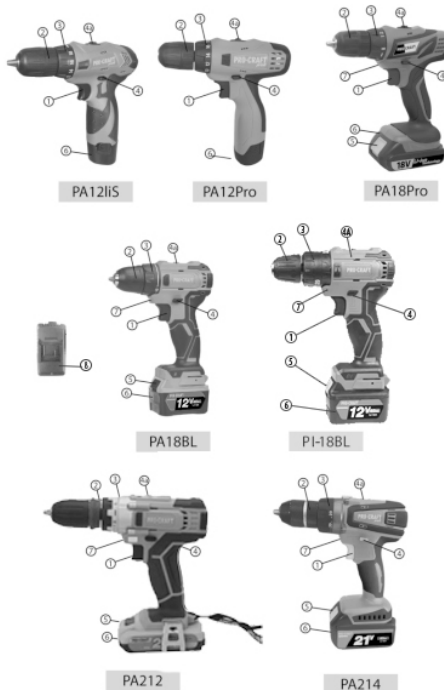
- While charging, the battery and charger are heated. Do not touch the device with your bare hands, which may cause burns. Wait until cool device.

**COMPOSITION AND ACCESSORIES OF PRODUCT. SPECIFICATIONS COMPLECTATION**

Variant of complectation of your machine is printed on the packaging. Packaging may vary from the typical, stated in this manual. The scope of delivery of the machine include:

Operating instruction	1pc.
Lithium-ion battery	2pc.
Chuck	1pc.
Charging device	1pc.
Screwdriver-head	1pc.
Shipping case	1pc.

**COMPONENTS**



- 1 - switch;
- 2 - chuck keyless;
- 3 - ring adjustment of the spinning moment;
- 4a - switch the speed range;

- 4 - switch the direction of rotation;
- 5 - the battery release button;
- 6 - Rechargeable battery;
- 7 - LED;
- 8 - Charger

**SPECIFICATIONS.**

<b>Drill with battery</b>	<b>PA12LIS</b>	<b>PA12Pro</b>	<b>PA18Pro</b>	<b>PA18BL</b>	<b>PI-18BL</b>	<b>PA212</b>	<b>PA214</b>
Supply voltage, V ~	220	220	220	220	220	220	220
Safety class of machines	III	III	III	III	III	III	III
speed at idle speed, rev / min: -1 stage -2 stage	0-350/ 0-1350	0-350/ 0-1350	0-350/ 0-1350	0-350/ 0-1400	0-350/ 0-1400	0-450/ 0-1750	0-400/ 0-1500
Weight, kg	0.95	1.0	1.235	1.15	1.15	1.32	1.83

<b>BATTERY</b>							
Rated voltage, V	12	12	18	12	12	20	21
Type of elements	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion	Li-ion
Capacity, A / h	2,0	2,0	2,0	4,0	4,0	2,0	4,0

<b>CHARGER</b>							
Supply voltage, V ~	220	220	220	220	220	220	220
Frequency, Hz	50	50	50	50	50	50	50

**WORKING**

**BATTERY INSTALLATION (6)**

1 battery 6 is installed at the base of the handle the machine to move smoothly along the guide rails along the longitudinal axis of the handle latching side locks. To remove the battery, squeeze both latches at the same time with your fingers, remove the battery.

2 chuck 2 is mounted on the machine spindle by means of a threaded connection and is fixed on the left-M5 screw thread.

3 spindle machine is equipped with auto-lock system of rotation that allows you to use the machine as a manual screwdriver.

4: Turn on the machine by pressing the 1 key switch and smooth change of spindle speed from minimum to maximum - change the pressure on the key 4a.

5 Lever 4 is used to change the rotation of the spindle.

Speed of rotation (4 and 4a)

1 Switching speed range spindle is with key 4 according to the directions on the package: -number 1 corresponds to the bottom, -number 2 - upper range.

Note: Switching lever 4 and 4a key is possible only after full stop of spindle.

**TIGHTENING KEYLESS CHUCK (2)**

1. Change the limit torque by setting ring 3 to the position indicated by the frame on the body: position 1 - 20 are used for wrapping / loosening the screws; position is used for drilling.

2. The charger has a special slot for battery installation. The battery is installed into the charger until it stops.

3. The tool has LED backlighting of workspace.

**TORQUE SETTING (3)**

Cordless Screwdriver has 20 positional mechanical setting for torque. Torque corresponding to the size of the screws is set using the regulator. Torques will depend on many factors:

- the type and hardness of material being processed
- the type and length of the screws used
- the requirements that apply to the connection. Achieving of torque level is signalized with special sound of outcome from clamping.

Attention! Setting ring torque must be controlled when stationary position of equipment.

**DRILLING**

For drilling button of torque control set to the last position "Drilling". In the position "Drilling" slip clutch is idle. During drilling is available maximum

torque.

### **SWITCH OF WAY (4)**

With the slide switch located on the switch, you can set the direction of spinning of drill-screwdriver and protect it against premature inclusion. You can set the left or right turn. To prevent damage to the drive direction of rotation is set exclusively off. If the switch the drill-screwdriver is in middle position, then it means that it is locked.

### **SWITCH (1)**

With the switch you can continuously adjust the speed. The more you push the switch, the higher the speed cordless screwdriver.

### **SCREWING IN SCREWS**

It is recommended to use self-centering screw (for example. Tox, with Phillips head), which ensures reliable operation. Pay attention to the tip of the screw and fit the shape and size. Torque setting is performed as described in the instructions, according to the size of the screws.

### **CHARGING (8).**

To charge the battery is necessary:

1. Press the two side buttons (left and right) on the battery and pull it down, removed from the housing cordless drills.
2. Connect the charger to the power supply, the green LED lights up.
3. Observing polarity, put the battery in the charger.
4. If you are installing serviceable battery indicator starts flashing red.
5. When charging the red LED lights continuously.

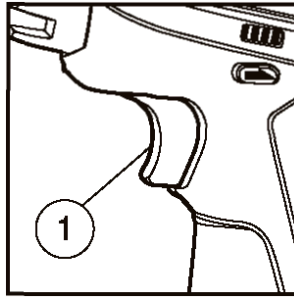
Pay special attention!

1. Keep the battery pack away from metal objects.
2. Do not place the battery near hot objects.
3. Do not throw it into fire or water!
4. Do not disassemble the battery!

### **TO START WORK**

Check the operation of the switch.

On: Press the trigger switch (1). Off: the trigger switch (1) release. Once you release your finger from the switch "On / Off.", the machine automatically and instantly stops.



When working with the surface, where there is electrical wiring, turn off all the fuses and / or circuit breakers, through which power is applied to the given workspace.

Check the product in the absence of jamming rotating parts, breakage, and other situations that negatively affect the battery drill- screwdriver.

In the case of jamming, immediately turn off the machine, change the direction of rotation, click on the "On / Off" And slowly pull the machine itself.

It is strictly forbidden to touch by hands rotating chuck or accessories.

During the installation process, ensure that the drills shank location on the chuck jaws.

Do not install broken or worn nozzle.

Attention! To prevent damage to the battery after the purchase, you must fully charge the battery for 1 hour!

Once you release your finger from the switch "On / Off", the machine automatically and instantly stops.

### **TERMS OF USE AND LIFE. POSSIBLE FAULTS.**

#### **CARE AND MAINTENANCE.**

Keep ventilation openings. Clean them from dust, dirt and chips. Keep the body parts of the product.

Do not use corrosive chemicals and liquids to clean the housing parts.

This product can be operated for less than 15 minutes, then it is necessary shut down for 5 minutes.

Weekly it is recommended to work with the product for less than 20 hours. Subject to the above recommendations lifetime is 3 years from date of purchase.

Attention! Disassembling the machine during the warranty period is forbidden!

If the drill / nozzle jammed during operation, immediately turn off the drill, release the drill and then continue.

Only use the battery with the trademark «VEGA», batteries from other

manufacturers may cause a fire.

During storage, adjustment or replacement of nozzles it is necessary disconnect the battery from the device, the button switch to "On/Off" Should be set to "Off." This reduces the likelihood of accidental activation.

During storage, keep the battery away from metal objects: paper clips, coins, keys, nails, screws or other small metal objects that can result in the contact of internal parts of the battery, leading to arcing and possibly start a fire.

### **CHECKING THE COLLECTOR.**

During prolonged storage reservoir is covered with oxides, which deteriorates commutation (severe sparking between the brushes and the collector) and, as a consequence, leads to premature failure of the motor armature. To remove oxides and blackening collector contact your service workshop or the factory.

### **CHECKING THE BRUSHES AND REPLACEMENT.**

After 50 hours of machine operation it is recommended to contact a specialized workshop for inspection of the brushes and, if necessary, replace them.

Malfunction	Possible reason	Remedy
1. Machine does not switch on	Discharged battery	Replace with charged battery
	Broken switch	Contact the workshop
	Invalid motor	
2. Advanced noise in gear housing	Depreciation / breaking gearbox components	
3. The battery is not gaining an appropriate charge	Decrease in battery capacity	Change the battery
	Malfunction of charging device	Contact the workshop



**CE DECLARATION OF CONFORMITY**

We Vega Trade Company Limited as the responsible manufacturer declare that Cordless drill **TM Procraft:**

**PA12LiS, PA12Pro, PA18Pro, PI-18BL, PA18BL, PA212, PA214**

are of series production and confirm to the following European Directives: 2014/30/EU

and are manufactured in accordance with the following standards or standardized documents:

EN 55014-1:2006+A1:2009+A2:2011

EN 55014-2:2015

Technical documentation has been supported by: VEGA TRADE COMPANY LIMITED, add.: Room 1009, Distrii Zhangjiang Keyuan Office: 6-11 / F, No.5 Bibo Road, Zhangjiang Innopark, Pudong, Shanghai.

Made in P.R.C



**WARRANTY CERTIFICATE**

**Name of the product:** \_\_\_\_\_

**Model:** \_\_\_\_\_

**Serial number:** \_\_\_\_\_

**Date of sale:** \_\_\_\_\_