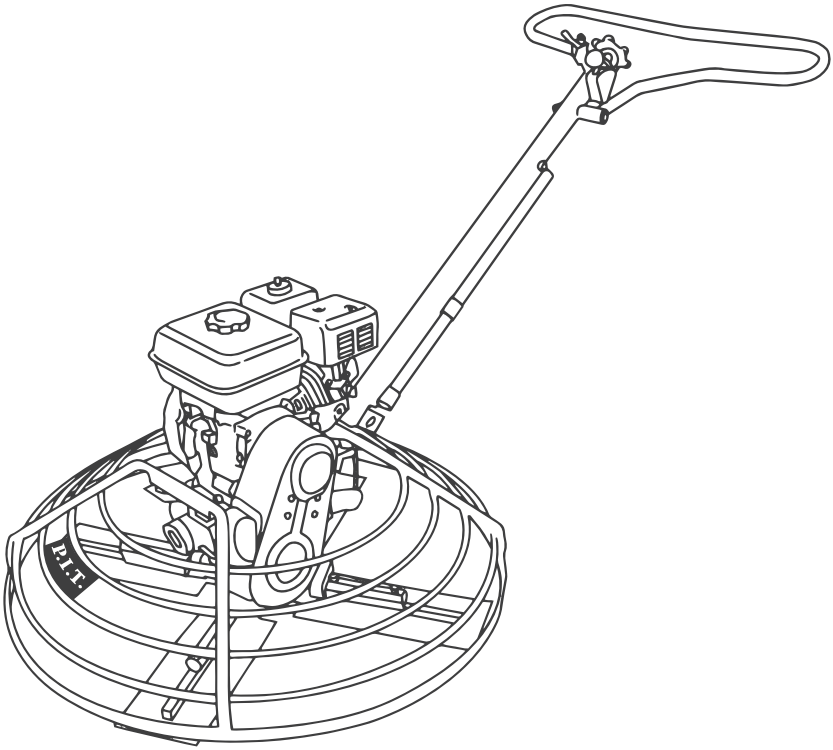
OPERATION MANUAL
РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ. ПАСПОРТ

P.I.T.

PCP91-G

PROFESSIONAL

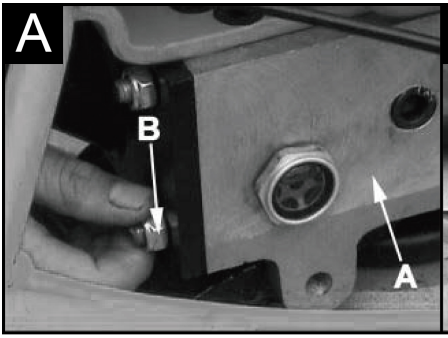


CEMENT PUSHING MACHINE

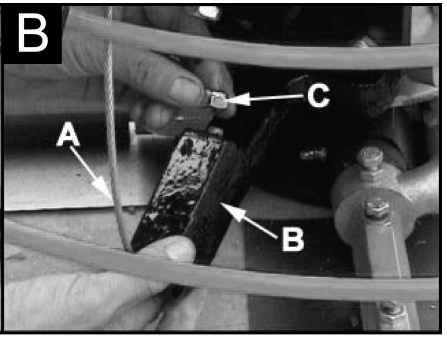
4000W Powerful Efficient

Please read the instruction manual carefully before use!
Пожалуйста, внимательно прочтите инструкцию перед использованием!

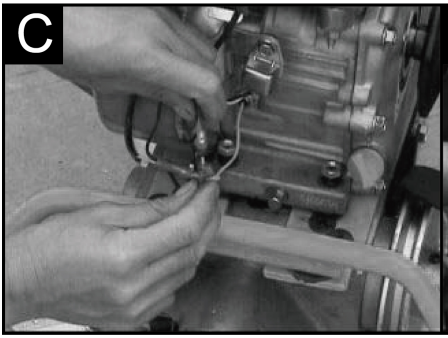
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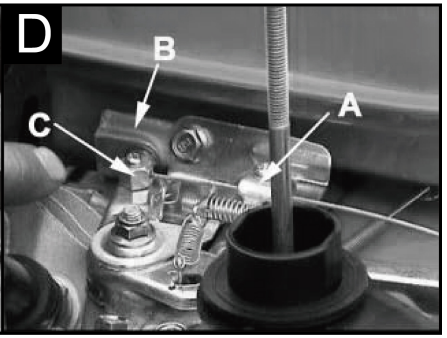
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C

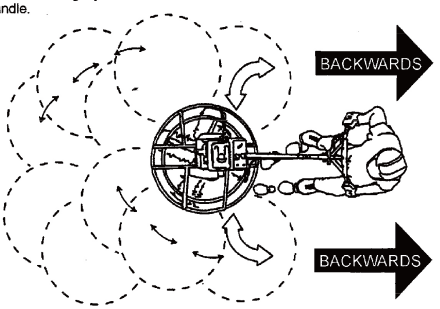


D



E

To move the trowel to the operator's left, ***lift up*** on the handle, to move the trowel to the right ***push down*** on the handle.



Remember! that if you let go of the trowel, just ***step away*** and let the trowel come to a complete **STOP** before trying to recover the trowel.

The best method for finishing concrete is to slowly walk ***backwards*** with the trowel, guiding the trowel from side to side. This will cover all footprints on wet concrete.

English

Safety instructions

General power tool safety warnings

WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instrucions may result in electric shock, fire and/or serious injury.

Warning: when using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personnal injury including the following.**Save all warnings and instrucions for future reference.**

Use common sense when handling fuels

- Transport and handle fuel only when contained in approved safety containers.
- Do not smoke when refueling the engine or during any other fuel handling operation.
- **If fuel is spilled during refueling, wipe it off from the engine immediately and discard the rag in a safe place.** Do not operate the unit if fuel or oil leaks exist-repair immediately.
- Never operate this equipment in an explosive atmosphere.
- **Never perform any work on the unit while it is running.** Before working on it, stop the engine and disconnect the spark plug wire to prevent accidental starting.
- **Do not operate this unit without all guards in place. Keep hands, feet, clothing and jewelry away from the unit blades and all moving parts.** Rotating and moving parts will cause serious injury if contacted during operation.
- Do not allow anyone to stank or lean on the unit during operation.
- **Keep the safety stop switch system in adjustment and good operating condition at all times. Do not operate the trowel if it does not work properly.** Out of control trowels can cause serious personal injury and damage to fresh concrete surfaces. This system will automatically stop the unit if the operator loses control of it during operation.
- **Make sure the safety stop switch is disengaged (lever in the down position) before starting the unit.** Keep one hand firmly on the handle while starting and do not let go of the handle during operation.
- Avoid contact with hot exhaust systems and engine parts.
- Allow engine to cool before performing any repairs or service.
- Ear protection required when operating this equipment.
- Never operate any gas powered equipment in a poorly ventilated or enclosed area.
- Avoid prolonged breathing of exhaust gases.

Product description and specifications

Read all the safety and general instructions.

Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

Please observe the illustrations at the beginning of this operating manual.

Intended use

This machine has been designed for drilling large or small holes in metal, wood,plastic etc. Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

Technical data

Model	PCP91-G
Power	4000 W
Rated speed	60-165 r/min
Rotation diameter	Φ91(3-9/16") cm
Protective disc diameter	Φ94(3-11/16") cm
Displacement	163 cc
Weight	90 Kg

Contents of delivery

Cement pushing machine	1 pc
37-inch round plate	1 pc
6×14-inch polished blade	4 pcs
Instruction manual	1 pc

Note

The text and numbers of the instructions may contain technical errors and typographical errors.

Since the product is constantly being improved, P.I.T. reserves the right to make changes to the specifications and product specifications specified here without prior notice.

Assembly

Operating principle/delivery checks

Operating principle

The following instructions were compiled to provide you information on how to obtain long and trouble free use of the unit. Periodic maintenance of this unit is essential.

Read the manual in its entirety and follow the instructions carefully. Failure to do so may injure yourself or a bystander.

Delivery checks: **immediately on taking delivery of your new equipment and before putting it into service.**

- ► Read the handbook completely—it could save a great deal of unnecessary expense.
- ► Read the engine manual supplied.
- ► Check the general condition of the equipment –has it been damaged during delivery.
- ► Check engine oil level.
- ► Check fuel levels.

Recommended lubricants are detailed in the care and maintenance section.

Standard features/preparation for service

Standard features

Your new Power Trowel comes standard with many features to enhance productivity, performance and safety.

Listed below are just a few of these features.

Safety stop switch: The switching mechanism of this switch should operate freely and should always be kept in this condition. With the switch in the OFF position, the engine should not start or run. The purpose of this switch is to stop the engine in a runaway situation, (i.e. the operator releasing the handle during operation).

Adjustable throttle:Located in a convenient location, this push-pull throttle control can be set to provide any blade speed from 50 to 130 RPM, and located in place at the desired operating speed.

Bent arm adjustment: Allows blades to be adjusted to compensate for bent arms caused by dropping or mishandling the trowel. Can be easily adjusted on-site for consistent finishing.

Heavy duty ring guard: Protects operator and unit while providing lower center of gravity which contributes to unit stability and performance.

Cast iron spider: Extra strong for insure alignment. Also contributes to lower center or gravity for increased trowel performance.

Adjustable handle: Can be positioned to provide comfort and control for any operator's height.

Tilt adjustment knob:adjusts the angle of the blades for different curing stages and conditions of the concrete. Turning the knob clockwise increases the angle of the blades to the concrete. Turning the knob counter-clockwise flattens or decreases the angle of the blades.

Preparation for service

Before starting: Your new Power Trowel has been assembled and tested at the factory. However, before placing the unit into service the following items should be checked:

Assembly and installation(Fig.A-D)

- ► Un-pack the handle assembly and the lower unit from the boxes. Check to make sure no damage was done during shipment. Mount the handle assembly to the gearbox (A) on the lower unit using 10mm nuts (B) that are supplied in a package on the lower unit.
- ► With the handle mounted to the lower unit, attach the pitch control cable (A) through the yoke arm (B) using the remaining 10mm nut (C). Tighten the nut.
- ► Attach the kill wire that is coming from the handle assembly to the engine using the wire splicer that is supplied on the lower unit.
- ► Make sure that the throttle lever on the handle assembly is pushed all the way forward. Remove the breather cap and the breather from the engine. Unscrew the cable adjustment clasp (A). Next, make sure that the throttle lever (B) on the engine is pushed all the way forward. Insert the wore coming out of the cable into the hole (C) shown on the diagram. With everything in place, put the cable adjustment clasp (A) back on and tighten down snug.

Oil level and lubrication: Check the oil level in the engine and gearbox. Engine and trowel warranties are VOID if this unit is run without oil. The blade have been greased.

Fuel: Fill the fuel tank on gasoline engines with clean gasoline from a safety can.DO NOT mix oil with the gasoline.

Operations

To start/to shut off/initial operation/floating operation/finishing operation/maneuver operation/lifting trowel

To start

- ► Make sure the safety stop switch is in the STOP position. If it is not, push the lever down to the STOP position before attempting to start the engine. Open fuel valve under fuel tank (if so equipped), open throttle

approximately half way down and apply choke. Holding unit handle firmly with one hand, pull the starter rope sharply with the other about (3) times. When engine starts, open choke and adjust throttle as necessary to keep it running. If engine doesn't start after (3) pulls, open choke slightly.

Note: These starting instructions are general guidelines only. Since many engine options are available on our power trowels, consult the ENGINE MANUAL included with the unit for specific instructions.

To shut off

- **Honda engines:**close throttle all the way and flip oil minder kill switch to the OFF position.
- **Robin engines:**close throttle all the way, depress kill switch button and hold down until engine stops
- completely.

Initial operation

- With engine started as instructed previously and at operating temperature, adjust speed to about half throttle.
- Hold the handle firmly with one hand and move the safety stop switch to RUN position to engage the trowel blades.

Floating operation

- Attach float blades to the trowel arms, and when the concrete has set sufficiently to support the weight of the trowel, place the unit on the concrete. Start the unit and engage the blades as previously instructed. Using the tilt
- adjustment knob to adjust the blades to the float position-blades should be as flat to the concrete as possible with enough tension kept on the tilt adjustment cable to prevent the unit from dancing or chattering.
- Guide the trowel over the concrete in a circular back and forth motion. Under normal conditions, you should be able to float a 30 x 30 foot area in approximately 15 minutes.
- This operation will bring the water and fines to the surface,allowing for a smoother finish when finishing the concrete.

Finishing operation

- After floating, allow the concrete to set until it will support the weight of the trowel. Set the pitch to approximately 1/4" to 3/8" on the blades. If the blades start to dig into the concrete, decrease the amount of pitch.

Lifting the trowel

- Remove the auxiliary lifting tube located on top of the main handle. Insert the tube into the socket located on the opposite side of the gearbox from the handle.
- Make sure that the hole in the tube engages with the pin in the socket. With one person lifting from the main handle , and another lifting from the auxiliary lifting tube pick up the machine to move onto a slab.

Maneuver operation(Fig.E)

- Below illustrates a typical walk-behind trowel application. Practice maneuvering the trowel. The trick is to let the trowel do the work.
- Continue to practice maneuvering the trowel. Try to practice as if you were finishing a slab of concrete.
- Practice edging and covering a large area. Remember a good finishing technique is to work backwards. Be careful when moving backwards so that hazards can be avoided. The best way to get accustomed to the trowel is repeated use.

Maintenance

Maintenance, lubrication, adjustment/lubrication

Maintenance, lubrication and adjustment

To get long and trouble free service from your new

Power Trowel, it is essential to perform periodic

maintenance on engine and machine mechanisms.

Follow the guidelines listed below;

Lubrication

A. Engine crankcase

Daily:check oil level in engine. Engine warranty is VOID if it is run without oil. Add oil as required to keep crankcase full. Engine oil should be changed every 250 hours of operation, or once a year, whichever comes first.

Oil requirements are as follows:

Temperatures above 40 ℉ (4℃) – SAE 30

Temperatures below 40 ℉ (4℃) – SAE 5W20

- These oil requirements are general guidelines only, for specific requirements consult the ENGINE MANUAL included with the unit.
- See the engine manual supplied with your machine for appropriate engine maintenance schedule and troubleshooting guide for problems.

B. Trowel

Daily (8-10 hours)

- Check the oil level in the engine crankcase

and gear box, fill as necessary.
► Check V-belt.

Weekly (50-60 hours)
► Relube arms, thrust collar and clutch.
► Replace blades if necessary.
► Check and clean or replace the engine air filter as necessary.
► Replace engine oil and filter as necessary, see engine manual.

Monthly (200-300 hours)
► Remove, clean reinstall and relube the arms and thrust collar. Adjust the blade arms.
► Grease arm bearing through the grease fittings in the spider. Pump grease into each fitting until clean grease comes out of spider at either end, thoroughly clean excess grease off from spider when all arms has been greased.
► Remove, clean, reinstall clutch.

Yearly (2000-2500 hours)
► Check and replace if necessary the arm bushings, thrust collar bushings and shaft seals.
► Check pitch control cables for wear.
► Adjust blade speed.

Specification

Motor
MT36-4 Petrol, Honda GX160 4.0 kw output

Service

► **Have your power tool repaired only by qualified personnel and only with original replacement parts. This ensures the safety of the power tool.**

The list of authorized service centers can be viewed on the official website of P.I.T. by the link: https://pittools.ru/servises/

Storage and transportation

► Always shut off engine when transporting machine.
► Make sure lifting device has enough capacity to hold machine (see identification plate on machine for weight).
► Use lifting tube and lifting hook (as optional) when lifting machine.

During the specified period, store the machine at an ambient temperature of 0 ° C to plus 40 ° C and a relative humidity of no more than 80%.

Products can be transported by any type of closed transport in the manufacturer's packaging or without it, while preserving the product from mechanical damage, atmospheric precipitation. Remove the exchange tool from the power tool before transporting it.

TROUBLE SHOOTING (TROWEL)

Symptom	Possible problem	Solution
Engine running rough or not at all	Safety switch malfunction.	Make sure that the safety switch is ON or replace switch if necessary.
	Fuel.	Look at the fuel system. Make sure there is fuel being supplied to the engine. Check to ensure that the fuel filter is not clogged.
	Ignition.	Check to ensure that the ignition switch has power and is functioning correctly.
Safety switch not functioning	Bad contacts.	Replace switch.
	Loose wire connections.	Check wiring. Replace as necessary.
	Other problems.	Consult engine manufacturer's manual.
If trowel "bounces, rolls concrete, or makes uneven swirls in concrete".	Blades.	Make certain blades are in good condition, not excessively worn. Finish blades should measure no less than 2" (500mm) from the blade bar to the trailing edge, combo blades should measure no less that 3.5" (89mm).
	Spider.	Check that all blades are set at the same pitch angle as measured at the spider.
	Bent trowel arms.	Check the spider assembly for bent trowel arms. If one of the arms is even slightly bent, replace it immediately.
	Trowel arm bushings.	Check the trowel arm bushings for tightness. This can be done by moving the trowel arms up and down. If there is more than 1/8" (3.2mm) of travel at the tip of the arm, the bushings should be replaced. All bushings should be replaced at the same time.
	Thrust collar.	Check the flatness of the thrust collar by rotating it on the spider. If it varies by more than 0.02" (0.5mm) replace the thrust collar.
	Thrust collar bushing.	Check the thrust collar by rocking it on the spider. If it can tilt more than 3/32" (2.4mm) [as measured at the thrust collar O.D.], replace the bushing in the thrust collar.
	Thrust bearing worn.	Check the thrust bearing to see that it is spinning free. **Note:** Thrust cap, replace if necessary.
Machine has a perceptible rolling motion while running.	Main shaft.	The main output shaft of the gearbox assembly should be checked for straightness. The main shaft must run straight and cannot be more than 0.003" (0.08mm) out of round at the spider attachment point.
	Yoke.	Check to make sure that both fingers of the yoke press evenly on the wear cap. Replace yoke as necessary.
	Blade Pitch.	Check to ensure that each blade is adjusted to have the same pitch as all other blades. Adjust per maintenance section in manual.

Clutch slipping or sluggish response to engine speed change.	Worn V-belts.	Replace V-belt.
	Dirty centrifugal clutch.	Disassemble and clean clutch.
	Defective or worn out centrifugal clutch.	Replace entire clutch.
	Worn bearings in gearbox.	Rotate input shaft by hand. If shaft rotates with difficulty, chick the input and output shaft bearings. Replace as necessary.
	Worn or broken gears in gearbox.	Verify that the gearbox shaft rotates when the input shaft is rotated. Replace both the worm and worm gear as a set.

Dispose of waste


Damaged power tools, batteries, accessories and waste packaging materials must be recycled and reused in an environmentally friendly manner.
Do not throw power tools and accumulators / batteries into general household waste!

TERMS OF WARRANTY SERVICE

To customers (users) of warranty service:
1. This warranty certificate is the only document that confirms your right to free warranty service. If this proof is not presented, no claims will be accepted. Warranty certificates cannot be recovered if lost or damaged.
2. It is required to provide a valid and legal document for purchasing the product. The document must have the name or seal of the sales company; at the same time, state the full model name of the purchased P.I.T. product, the serial number on the nameplate of the fuselage, and the date of purchase, and the required warranty. The whole machine and its accessories.
The warranty period:
1. The warranty period of the product is 12 months from the date of sale. During the warranty period, the service department will eliminate manufacturing defects free of charge and replace the parts that fail due to the manufacturer's fault. In warranty repair, an equivalent operable product is not provided. Replaceable parts become the property of the service provider.
2. The wear degree on the diameter of the motor rotor commutator is less than 0.4 mm (except for brushless motor tools), and the internal damage caused by the quality of the tool belongs to the warranty.
The following situations occur during the warranty period, which is not covered by the warranty:
1. In the absence of any valid legal documents (invoices) such as warranty certificates and warranty cards to prove the date of purchase.
2. Damage caused by natural wear and overload. (For example, motor rotor and stator failure caused by overload, scorching or melting of the primary winding of the welding machine transformer, charging or starting the charging device, melting of internal parts, burning of electronic circuit boards, etc.)
3. The casing and power cord are mechanically damaged, as well as damage caused by corrosive media and high and low temperature, foreign objects entering the ventilation network of the motor, and damage caused by improper storage (corrosion of metal parts);
4. Damage caused by improper carrying, transportation and storage by users.
5. Products that are opened, repaired, replaced or modified by users themselves.
6. Any damage caused by indiscriminate use, beyond the scope of use of the tool, and not in accordance with the instructions for use and maintenance. (see chapter "Safety Precautions" in the manual);
7. The damage caused by the following situations is not guaranteed due to improper use and non-quality problems:
(1) When the power tool is running at high speed, use the braking device to forcibly stop the rotation.
(2) Excessive pressure is applied to the tool during the use of the tool.
(3) Use the tool outside the scope of its purpose and capabilities.
(4) Damage caused by the tool working in a dusty environment for a long time without timely maintenance of the tool.
(5) Change the rotation direction of the work head before the tool stops completely.
(6) Shock the battery or charger and replace the plug of the charger without permission, causing damage to the battery or charger.
(7) Damage caused by two-stroke gasoline tools not being fueled in the correct proportions.
The warranty does not include:
1. Replacement of accessories (accessories and components) such as batteries, discs, blades, drills, drills, chucks, chains, sprockets, collet clamps, guide rails, tension and fastening elements, dresser heads, grinders And belt sander base machine, hexagonal head, etc.;
2. Wearing parts, such as: carbon brushes, transmission belts, seals, protective covers, guide rollers, guide rails, rubber seals, bearings, toothed belts and wheels, shanks, brake belts, starter ratchets and ropes, piston rings Wait.
The above accessories are replaced with paid services during the warranty period;

P.I.T. WARRANTY CERTIFICATE

Place of seal

Product Name_____

Product Serial Number □□□□□□□□□□□

Charger Serial Number □□□□□□□□□□□□□□

Sale Date _____

Trade Organization Name _____

Dear customer!

Thank you for purchasing the P.I.T. tool, and we hope that you will be satisfied with your choice. In the process of manufacturing the P.I.T. tools pass multilevel quality control, if nevertheless your product will need maintenance, please contact the authorized P.I.T. service centers.

Attention!

When buying, ask a seller to check the completeness and operability of the tool, to fill out the Warranty Certificate, the Warranty Card (the boxes shall be filled out by a seller) and to affix the seal of the trade organization in the Guarantee Certificate and the Warranty Card.

Warranty

By this Warranty Certificate, P.I.T. company guarantees the absence of defects of the production nature.

In the event any of the above defects are detected during the warranty period, the specialized P.I.T. service centers shall repair the product and replace the defective spare parts free of charge.

The warranty period for P.I.T. electric machines is 12 months from the date of sale.

“The warranty maintenance terms acknowledged and accepted. The operability and completeness of the product are checked in my presence. No claims on quality and appearance.”

Buyer’s Signature_____ Surname (legibly) _____

Phone _____

ГАРАНТИЙНОЕ СВИДЕТЕЛЬСТВО НА ИНСТРУМЕНТ P.I.T.

Наименование изделия_____

Серийный номер изделия □□□□□□□□□□□

Серийный номер зарядного устройства □□□□□□□□□□□

М.П.

Дата продажи «_____» _____

Наименование торговой организации_____

Уважаемый покупатель!

Благодарим Вас за покупку инструмента P.I.T. и надеемся, что Вы останетесь довольны своим выбором.
При необходимости обслуживания Вашего изделия обращайтесь в авторизированные сервисные центры P.I.T. Все сервисные центры представлены на сайте www.pittools.ru

Внимание!
При покупке требуйте у продавца проверки работоспособности инструмента и его комплектности, а также заполнения гарантийного свидетельства, гарантийного талона (графы «Заполняются продавцом») и простановки печати торговой организации в гарантийном свидетельстве и гарантийных талонах.

Гарантия
На основании данного гарантийного свидетельства компания P.I.T. гарантирует отсутствие дефектов производственного характера.
Если в течение гарантийного срока в Вашем изделии обнаружатся указанные дефекты, то специализированные сервисные центры P.I.T. бесплатно отремонтируют изделие и заменят дефектные запасные части.
Гарантийный срок на электроинструменты P.I.T. составляет 12 месяцев со дня продажи.

«С условиями гарантийного обслуживания ознакомлен(а). Работоспособность и комплектность изделия проверены в моем присутствии. Претензий к качеству и внешнему виду не имею».

Подпись покупателя_____Фамилия(разборчиво)_____

Телефон_____

P.I.T. WARRANTY CARD

Name_____
Serial Number_____
Sale Date _____20__
Date of Receipt from Repair ____20__

P.I.T. **№ 1**

Name_____
Serial Number_____
Sale Date _____20__ Place of Seal
(Filled out by a Seller)
WARRANTY REPAIR CARD
Date of Acceptance for Repair _____20___
Application for Repair _____
Customer _____
Phone (Address)_____
Cause of Application_____
Date of Receipt from Repair _____20__
The Tool is checked in my presence_____
(The Order shall be performed in a Service Center) (Signature)

Name_____
Serial Number_____
Sale Date _____20__
Date of Receipt from Repair ____20__

P.I.T. **№ 2**

Name_____
Serial Number_____
Sale Date _____20__ Place of Seal
(Filled out by a Seller)
WARRANTY REPAIR CARD
Date of Acceptance for Repair _____20___
Application for Repair _____
Customer _____
Phone (Address)_____
Cause of Application_____
Date of Receipt from Repair _____20__
The Tool is checked in my presence_____
(The Order shall be performed in a Service Center) (Signature)

Name_____
Serial Number_____
Sale Date _____20__
Date of Receipt from Repair ____20__

P.I.T. **№ 3**

Name_____
Serial Number_____
Sale Date _____20__ Place of Seal
(Filled out by a Seller)
WARRANTY REPAIR CARD
Date of Acceptance for Repair _____20___
Application for Repair _____
Customer _____
Phone (Address)_____
Cause of Application_____
Date of Receipt from Repair _____20__
The Tool is checked in my presence_____
(The Order shall be performed in a Service Center) (Signature)

ГАРАНТИЙНЫЙ ТАЛОН P.I.T.

P.I.T. Талон № 1

Наименование_____
Серийный номер_____
Дата продажи 《_____》 _____20__
(Заполняется продавцом)
КАРТА ГАРАНТИЙНОГО РЕМОНА
Дата приема ремонт _____20___
Заявка на ремонт _____
Заказчик _____
Телефон (адрес)_____
Причина обращения_____
Дата получения от ремонта _____20__
Инструмент проверен в моем присутствии_____
(Заказ заполняется в Сервисном Центре) (Подпись)

Место печати или штампа

Наименование_____
Серийный номер_____
Дата продажи _____20__
Дата получения от ремонта ___20__

P.I.T. Талон № 2

Наименование_____
Серийный номер_____
Дата продажи 《_____》 _____20__
(Заполняется продавцом)
КАРТА ГАРАНТИЙНОГО РЕМОНА
Дата приема ремонт _____20___
Заявка на ремонт _____
Заказчик _____
Телефон (адрес)_____
Причина обращения_____
Дата получения от ремонта _____20__
Инструмент проверен в моем присутствии_____
(Заказ заполняется в Сервисном Центре) (Подпись)

Место печати или штампа

Наименование_____
Серийный номер_____
Дата продажи _____20__
Дата получения от ремонта ___20__

P.I.T. Талон № 3

Наименование_____
Серийный номер_____
Дата продажи 《_____》 _____20__
(Заполняется продавцом)
КАРТА ГАРАНТИЙНОГО РЕМОНА
Дата приема ремонт _____20___
Заявка на ремонт _____
Заказчик _____
Телефон (адрес)_____
Причина обращения_____
Дата получения от ремонта _____20__
Инструмент проверен в моем присутствии_____
(Заказ заполняется в Сервисном Центре) (Подпись)

Место печати или штампа

Наименование_____
Серийный номер_____
Дата продажи _____20__
Дата получения от ремонта ___20__

20260123-A

P.I.T.

Media account

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