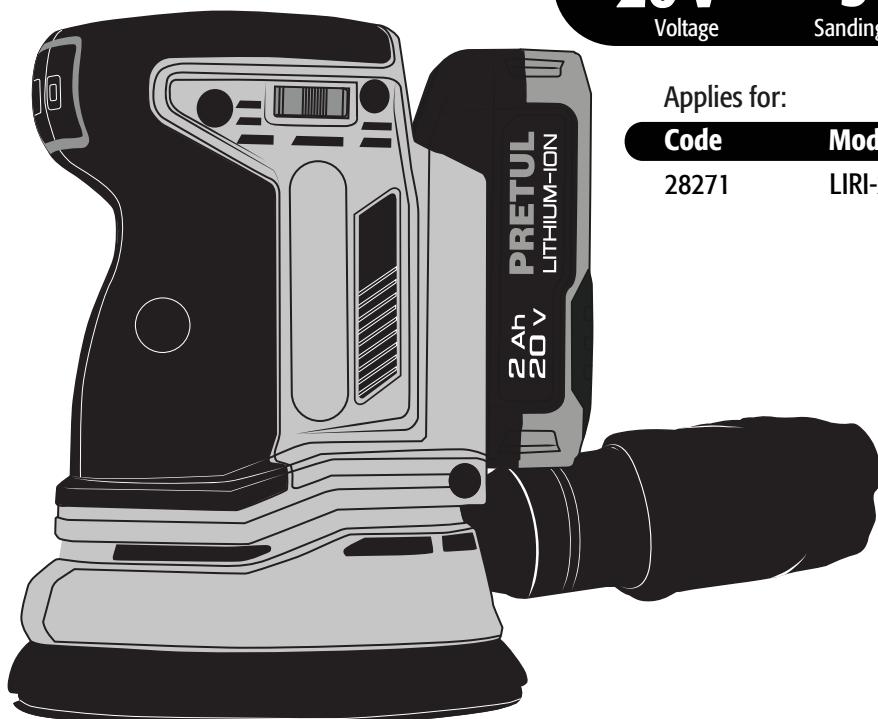


Manual

# Cordless random orbit sander



20 V == 5"  
(125 mm)  
Voltage Sanding disc

Applies for:

Code

Model

28271

LIRI-20P

**LIRI-20P****CAUTION**

Read this manual thoroughly  
Before using the tool.



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## CAUTION

To get the most out of the tool, extend its lifespan, claim the warranty if necessary, and avoid serious risks or injuries, it is essential to read this manual in its entirety before using the tool.

Keep this manual for future reference.

The illustrations in this manual are for reference only and may differ from the real appearance of the tool.

## Use and care recommendations

-  Use **ONLY** the provided charger or the one suggested by TRUPER to charge the battery.
-  Follow the battery **GUIDELINES** and charging **INSTRUCTIONS** (page 7).
-  **DO NOT** turn on the tool when the sanding surface is positioned above the workpiece.
-  Keep the tool and charger ventilation slots **CLEAN**. 
-  Perform regular **MAINTENANCE** on your machine (page 10).

## LIRI-20P

Code •	28271	
Description •	Cordless random orbit sander	
Base •	5"	
Voltage •	20 V ---	
Speed •	3 000 OPM - 10 000 OPM	
Functions •	6-setting variable speed control, dust collection system	
Battery •	Ion-lithium 20 V --- 2Ah Charging time 55 minutes approx	
Dust collection •	Yes	
Charger •	Input: Voltage: 127 V~ Frequency: 60 Hz Input current: 0.9 A	Output: 21 V --- 2.5 A
Insulation •	Class II	IP Grade • IP20

The power cable has cable clamps of the type: Y.

The construction class of the tool is: Class III.

The construction class of the charger is: Reinforced insulation.

**⚠ WARNING** If the power cable is damaged, it must be replaced by the manufacturer or a TRUPER Service Center to prevent any risk of electric shock or significant accident.



The electrical insulation of this tool is compromised by splashes or spillage of liquids during its operation.

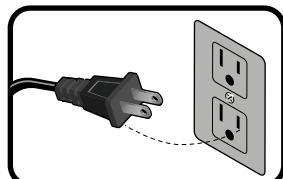
Do not expose it to rain, liquids, and/or moisture.

**⚠ WARNING** Before accessing the terminals, all power circuits must be disconnected.



## Power requirements

**⚠ WARNING** Double-insulated and reinforced insulation tools eliminate the need for a 3-wire grounded power cord or a grounded electrical system.



**⚠ WARNING** When using an extension cord, make sure to use a gauge (wire thickness) sufficient to carry the current your tool will consume. A lower gauge cable will cause voltage drops in the line, resulting in power loss and motor overheating. The following table shows the correct size to use depending on the cable length and amperage capacity indicated on the tool's data plate. If in doubt, use the next higher gauge.

Capacity in Amperes	Number of Conductors	Extension gauge	
		from 1.8 m to 15 m	higher than 15 m
from 0 A and up to 10 A		18 AWG(*)	16 AWG
from 10 A and up to 13 A		16 AWG	14 AWG
from 13 A and up to 15 A		14 AWG	12 AWG
from 15 A and up to 20 A		8 AWG	6 AWG

\* It is allowed to use it if the extensions themselves have an overcurrent protection device.

AWG = American Wire Gauge. Reference: NMX-J-195-ANCE.

**⚠ WARNING** When operating electric tools outdoors, use a grounded extension cord marked as **✓ VOLTECK** 'Outdoor Use'. These extensions are specially designed for outdoor use and reduce the risk of electric shock.





**⚠️WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shocks, fires, and/or serious injuries. Keep all warnings and instructions for future reference. The term "power tool" in the warnings refers to your corded electric power tool or cordless power tool (battery-operated).

#### Work area

**Keep your work area clean, organized, and well-lit.**

CAUTION Cluttered and dim areas can lead to accidents.



**Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gas, or dust.**

The electric tools produce sparks that can ignite flammable material.



**Keep children and other individuals at a safe distance while using the equipment.**

Distractions can cause loss of control and lead to accidents.



#### Electrical Safety

**The tool plug must match the outlet. Never modify a plug. Do not use any type of adapter for grounded tool plugs.**

Do not use adapters with grounded power tools.

The Modified plugs and different outlets increase the risk of electrical shock.



**Avoid body contact with grounded surfaces such as pipes, radiators, electric stoves, and refrigerators.**

There is an increased risk of electrical shock if the body is grounded.

**Do not expose the tool to rain or humid conditions.**

Water entering the tool increases the risk of electrical shock.

**Do not force the cable. Never use the cable to transport, lift, or disconnect the tool. Keep the cable away from heat, oil, sharp edges, or moving parts.**

Damaged or tangled cables increase the risk of electrical shock.

**When using a tool outdoors, use a specially designed outdoor extension cord.**

Using an appropriate outdoor extension cord reduces the risk of electrical shock.

**If using the tool in a damp location is unavoidable, use a power supply protected by a ground fault circuit interrupter (GFCI).**

Using a GFCI reduces the risk of electrical shock.

#### Personal safety

**Be alert, watch what you are doing, and use common sense when handling a tool. Do not use it if you are tired or under the influence of drugs, alcohol, or medication.**

A moment of distraction while using the tool can cause personal injury.

**Use safety equipment. Always wear eye protection.**

The use of safety equipment such as safety glasses, dust mask, slip-resistant shoes, helmet, and ear protection in appropriate conditions significantly reduces the risk of personal injury.



**Avoid accidental starts. Ensure the switch is in the "off" position before connecting to the power source and/or the battery or transporting the tool.**

Carrying power tools with your finger on the switch or connecting power tools with the switch in the "on" position can cause accidents.

**Remove any wrenches or adjusting tools before starting the power tool.**

Wrenches or tools left on the rotating parts of the tool can cause personal injury.

**Do not exceed your range of motion. Keep both feet firmly planted on the ground and always maintain balance.**

This allows better control of the tool in unexpected situations.

**Dress appropriately. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.**

Loose clothes, jewelry, or long hair can get caught in moving parts.

**If dust extraction and collection devices are available for the tool, check their connections and use them correctly.**

The use of these devices reduces risks associated with dust.

#### Tool use and care

**Do not force the tool. Use the appropriate tool for the task at hand.**

The right tool performs better and is safer when used at the intended pace.

**Do not use the tool if the switch is not functioning.**

Any power tool that cannot be turned on or off is dangerous and must be repaired before operation.

**Disconnect the tool from the power source and/or battery before making any adjustments, changing accessories, or storing it.**

These measures reduce the risk of accidentally starting the tool.

**Store the tools out of the reach of children and do not allow them to be handled by individuals unfamiliar with the tools or their instructions.**

Power tools are dangerous in untrained hands.

**Maintain the tool. Ensure that the moving parts are not misaligned or jammed, and that there are no broken parts or other conditions that may affect its operation. Repair any damage before using the tool.**

Many accidents are caused by inadequate tool maintenance.

**Keep cutting accessories sharp and clean.**

Well-maintained cutting accessories are less likely to jam and easier to control.

**Use the tool, its components, and accessories in accordance with these instructions and as intended for the type of tool, in appropriate working conditions.**

Using the tool for applications other than those for which it is designed could cause a hazardous situation.

## Use and care of the battery-powered tool

Make sure the switch is in the off position before inserting the battery.

Inserting the battery into electric tools with the switch on may cause issues.

## Use electric tools only with batteries designed for them.

Using other batteries may create a risk of injury or fire.



When batteries are not in use, keep it away from any metallic objects such as clips, coins, keys, nails, screws, or any metallic object that may create a connection from terminal to another.

Short-circuiting between battery terminals can cause burns or fire.

In abusive conditions, battery liquid may be expelled; avoid contact. If accidental contact occurs, rinse with water. If the liquid meets the eyes, seek medical assistance.

The liquid expelled can cause irritation or burns.

## Service

Send your power tool for repair to trained personnel using only identical replacement parts.

This will ensure the safety of the power tool is maintained.



This tool is in compliance with the Official Mexican Standard (NOM - Norma Oficial Mexicana).

## Special safety instructions

Use hearing protection. Exposure to noise can cause hearing loss. Hold the power tool by the insulated gripping surfaces when performing an operation where the drilling accessory may contact hidden wires or its own cord. If the drilling accessory meets a "live" wire, the exposed metal parts of the power tool may become "live" and give an electric shock to the operator. Secure the workpiece. A workpiece held by clamps or in a vise is more secure than holding it by hand.

**WARNING** Some dust created by sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks, cement, and other masonry products, and
- arsenic and chromium from chemically treated lumber.

The risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area and use approved safety equipment, such as dust masks designed to filter microscopic particles.

## Safety warnings for rechargeable batteries and charger

**WARNING** During the use of tools supplied with batteries, basic safety measures must be followed to reduce the risks of fire, electrolyte leaks, and personal injuries, including the following precautions:

- Ensure that the battery is suitable for the tool. Make sure the external surface of the battery is clean and dry before connecting it to the charger.
- Ensure that batteries are charged using the correct charger recommended by the manufacturer. Incorrect use may create a risk of electric shock, overheating, or leakage of corrosive liquid from the battery.
- If there is an electrolyte leak, avoid skin contact. In case of a leak, wipe it off with a cloth. If the liquid meets the skin, rinse thoroughly with water. In case of a reaction or contact with eyes or mucous membranes, seek medical attention.
- Ensure that the device is properly turned off before inserting the battery into the device. Inserting a battery into a device while it is on may cause accidents.
- Use the device only with the type of battery indicated in the instructions. Using another type of battery can create a serious risk of injury and cause a fire.
- When the battery is not in use, keep it away from metallic objects such as paperclips, coins, keys, or other small metal

objects that may create a connection between terminals.

Short-circuiting battery terminals can cause burns to the user and may lead to a fire.

- Battery disposal

Ensure proper disposal of the battery:

1. Do not throw it away.
2. Do not burn it.
3. Do not toss it into a river.
4. Dispose of the battery in designated collection containers (ask your retailer).

## Intended use

The machine is intended for sanding and finishing metal, wood, plastic, or similar materials using the provided abrasive discs. The random orbital sander is intended to be used by adult operators who have read the instruction manual and understand the risks and hazards involved. The random orbital sander should only be used in well-ventilated areas. This tool is designed exclusively for dry sanding. It is intended for domestic use and should only be used as described above and not for any other purpose.

**⚠ CAUTION** • Observe applicable regulations when sanding painted surfaces. Exercise special care when the paint contains lead.

• Remove dust and any other debris for a safe working environment. Use a vacuum or dust extractor whenever possible for dust collection.

**⚠ CAUTION** • All individuals in the work area should use professional respirators to protect against dust and smoke generated during sanding.

• Do not use this machine for sanding parts with magnesium or containing asbestos.

• After extended periods of work, external metal parts and accessories may become hot.

**⚠ CAUTION** • Use professional respirators and appropriate cartridges for dust and paint vapor work.  Ordinary paint masks do not provide this protection.

**⚠ WARNING** • Children and pregnant women should not enter the work area.

**⚠ WARNING** • Remove the dust collection bag before sanding metals, as sparks can ignite the dust or even the internal bag.

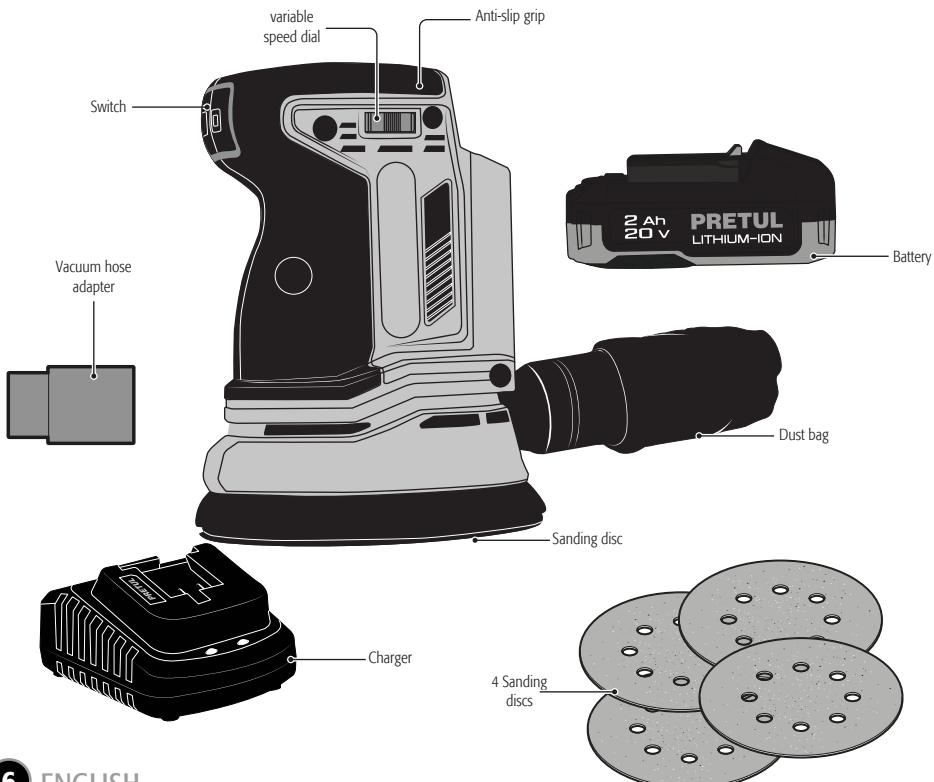
• Do not use worn-out or broken sandpaper.

• Do not touch the moving sanding pad.

• Before starting to sand, ensure that you have removed all foreign objects such as nails or screws from the workpiece.

**⚠ WARNING** • Hold the tool by the insulated gripping surfaces, as the sanding pad could contact its own power cord. Contact with a live power cord makes the metal parts of the tool also live and can give a shock to the operator.

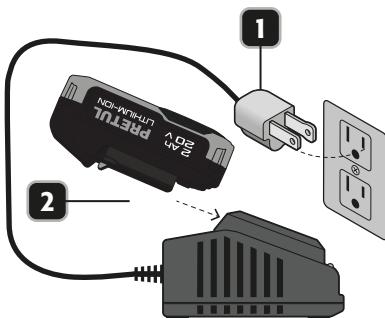
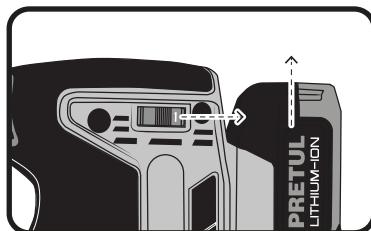
## Parts



## Battery charging

Before the first use and when the battery capacity is too low, it must be fully charged.

- Press the release buttons and remove the battery from the cordless random orbital sander.
- Connect the charger plug (1) to a 127 V~ outlet (The green light on the charge indicator will turn on).
- Insert the battery into the charger (2) by sliding it as shown in the picture. The green light will turn off, and the red light should turn on, indicating that charging has started.
- When the battery is fully charged, the green light will turn on, and the red light will turn off.
- Disconnect the charger from the power once the charging is complete.
- If the red light is blinking, it indicates a defective battery; replace it with a new one.
- If the green light is blinking, it signals that the battery temperature is below 32 °F or above 113 °F. Wait for the battery temperature to be within the appropriate range before charging.



## Installation of the sanding disc

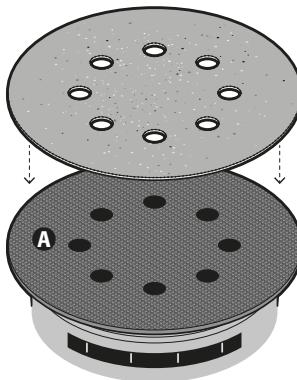
**⚠ WARNING** • Always ensure that the sander is turned off and before placing the sanding disc.

- Select the appropriate grit of sandpaper.
- Remove dust and debris from the pad and its hook&loop base (A).
- Align the holes of the sanding disc with the holes of the pad and press firmly. Proper hole alignment allows dust extraction to function.
- To remove the sanding disc, peel it off from the base (B).

**⚠ CAUTION** • Regularly clean the accumulated dust on the hook&loop base, and do not allow the sanding disc to wear out completely before replacement. Otherwise, the hook&loop base may be damaged, losing adhesion with the sandpaper.

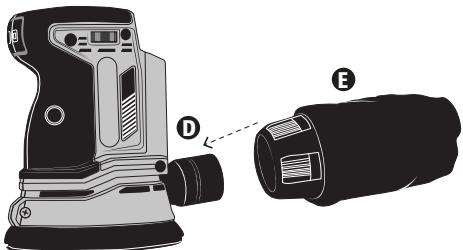
**⚠ CAUTION** • The hook&loop base is considered a consumable and is not covered under the warranty.

**⚠ CAUTION** • If the hook&loop attachment is wearing out prematurely, it could be because excessive pressure is being applied to the tool during operation.



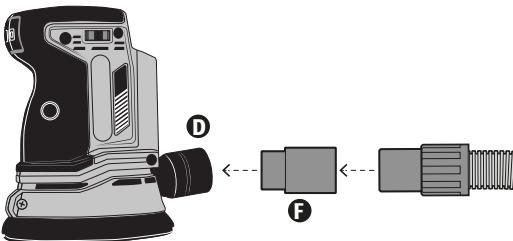
### Dust extraction

- Before connecting the tool, attach the dust collection bag to the dust extraction duct at the back of the sander (D).
  - For optimal dust extraction, empty the dust collection bag when it reaches half full.
  - Use the dust collection bag when sanding wood.
- CAUTION** • Avoid using it for sanding metal, as hot metal particles may ignite the remaining wood dust or the internal bag.
- Regularly clean the accumulated dust in both the dust collection bag and the hook&loop base.



### Dust extraction with vacuum

- When using with a vacuum, take off the bag (E) from the dust adapter (D).
  - Place the vacuum adapter (F) into the adapter (D).
  - Insert the vacuum nozzle into the adapter hole.
- CAUTION** • Avoid using it for sanding metal, as hot metal particles may ignite the remaining wood dust or the internal filters of the vacuum.

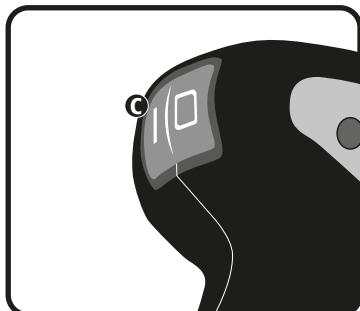


## Start up

### Power on

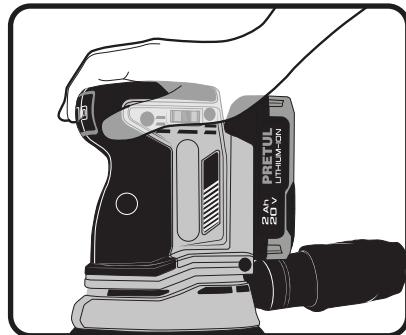
- Insert the battery into the machine.
  - To start the tool, push the switch (C) to the ON position (I).
  - To turn off the tool, press the switch in the opposite direction.
- CAUTION** • Avoid starting the tool when the sanding surface is directly over the workpiece.
- CAUTION** • Before shutting off the tool, move it away from the workpiece.

This sander is designed for sanding wood, metal, plastic, and similar materials. It's suitable for repetitive sanding and fine finishing. Its compact size makes it ideal for precision work.



## Operation of the sander

- Turn on the sander before placing it on the workpiece.
- Keep the sander's base parallel to the surface of the workpiece.
- Apply light downward pressure on the workpiece, making circular movements to ensure the entire sanding area is in contact with the workpiece.
- Maintain moderate pressure; avoid forcing the sander. Let it work at a reasonable speed. Excessive pressure can lead to motor overheating, resulting in inadequate sanding and potential motor damage.
- If surface marks persist after sanding, re-sand with a coarser grit to eliminate the marks. Change to the previous grit and finish sanding. Alternatively, replace the worn-out sandpaper with a new one.
- Do not let the sandpaper wear out completely; replace it before that happens.

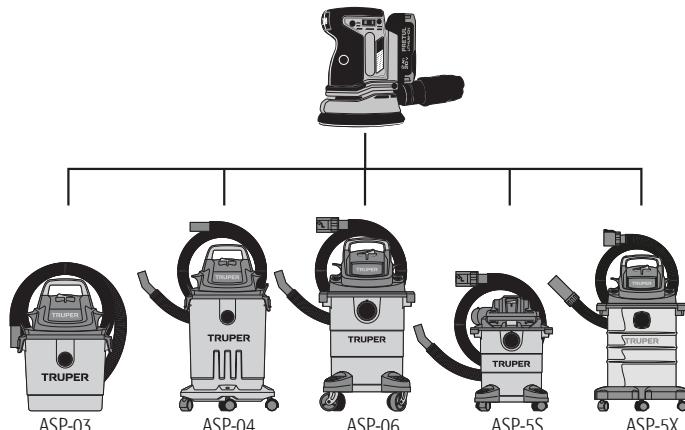


## About the charger

- Disconnect the power before connecting or disconnecting the battery.
- The charger should only be used with rechargeable batteries. Never use non-rechargeable batteries.
- Do not expose the charger to rain or water.

# Usage recommendations

## Compatibility with vacuum cleaners



## Care and cleaning

Ensure the ventilation openings are unobstructed and clean the product regularly. Wipe the housing with a damp cloth only; do not use solvents. Allow it to dry completely afterward.

**⚠ CAUTION** • If anything unusual occurs during use, turn the machine off and remove the battery. Inspect and repair the tool before using it again. Repairs must be carried out by a trained technician.

- Tool repair should only be performed by a qualified repair technician. Repairs or maintenance performed by untrained personnel may pose a risk of injury.
- Use only identical replacement parts to repair a tool. Follow the maintenance instructions in this user manual.

**⚠ CAUTION** • Due to the nature of the battery, incorrect charging and discharging by the user can result in a rapid decrease in its capacity.

- Always fully discharge batteries before recharging.
- Ensure to fully charge batteries during each charging cycle.
- Make sure to use the correct charger recommended by the manufacturer for charging batteries.

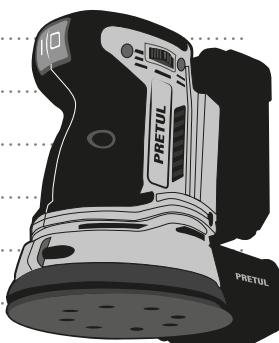
**⚠ CAUTION** • After extended storage, the battery capacity will decrease.

- A new battery or one that has not been used for an extended period reaches its full performance only after approximately 5 charge and discharge cycles.
- Always remove the battery before performing any work on the machine.
- To maintain battery capacity, we recommend discharging the battery completely every month and then recharging it. Store only fully charged batteries and replenish the charge occasionally. Batteries must be stored in a dry, frost-free place, environment temperature should not exceed 122 °F.

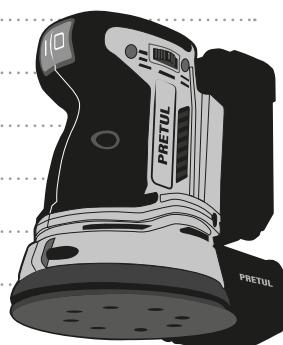
## Storage

- Store the machine, operating instructions, and, when necessary, accessories in the original packaging. This ensures that you always have all the information and parts readily available for use.
- Pack the device securely or use the original packaging to prevent damage during transport.
- Always store the machine in a dry place.

Problem	Cause	Corrective action
The sander loses power.	<ul style="list-style-type: none"><li>Low battery.</li></ul>	<ul style="list-style-type: none"><li>Charge the battery.</li></ul>
The sanding disc does not adhere properly.	<ul style="list-style-type: none"><li>Dirty or worn-out hook &amp; loop base.</li></ul>	<ul style="list-style-type: none"><li>Clean the hook &amp; loop base every time you change the sanding disc, and if the issue persists, consider replacing the base. (The base is a consumable item and will wear out.)</li></ul>
The machine does not extract sanding dust.	<ul style="list-style-type: none"><li>Obstructed suction holes.</li></ul>	<ul style="list-style-type: none"><li>Ensure you use punched sandpaper for dust collection.</li></ul>
The battery leaks.	<ul style="list-style-type: none"><li>Normal minor leakage due to extreme temperatures or after heavy use.</li><li>Intense or very noticeable leakage is due to a damaged battery.</li></ul>	<ul style="list-style-type: none"><li>Immediately wash any liquid off the skin or clothing with water and soap.</li><li>Replace the battery immediately.</li></ul>
The battery does not charge, and the charge level indicator light does not turn on.	<ul style="list-style-type: none"><li>Incorrect charger connection to the battery.</li><li>Charger not properly plugged into the power outlet.</li></ul>	<ul style="list-style-type: none"><li>Insert the charger connection correctly into the battery.</li><li>Ensure that the charger plug is securely connected to the power outlet.</li></ul>
The sander heats up after prolonged periods of use.	<ul style="list-style-type: none"><li>Normal heating due to energy absorption generated by motor gears and electricity during operation.</li></ul>	<ul style="list-style-type: none"><li>Allow it to cool down at intervals of 5 minutes.</li></ul>
The battery heats up during charging.	<ul style="list-style-type: none"><li>Normal heating due to energy extraction from the battery while the sander is in operation.</li></ul>	<ul style="list-style-type: none"><li>Pause the sander at intervals of 5 minutes to allow the battery to cool.</li></ul>
The battery heats up during charging.	<ul style="list-style-type: none"><li>Normal heating due to chemical reactions occurring inside the battery during charging.</li></ul>	
Charger heats up during charging.	<ul style="list-style-type: none"><li>Normal heating due to voltage regulation.</li></ul>	







If you have any problems contacting a TRUPER Authorized Service Center, please consult our webpage [WWW.TRUPER.COM](http://WWW.TRUPER.COM) to get an updated list, or call our toll-free numbers 800 690-6990 or 800-018-7873 to get information about the nearest Service Center.

AGUASCALIENTES	<b>DE TODO PARA LA CONSTRUCCIÓN</b> GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0537	MORELOS	<b>FIX FERRETERÍAS</b> CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 755 352 8931
BAJA CALIFORNIA	<b>SUCURSAL TIJUANA</b> AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL FLORIDO II, C.P. 22244, TIJUANA, B.C. TEL.: 664 969 5100	NAYARIT	<b>HERRAMIENTAS DE TEPIC</b> MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
BAJA CALIFORNIA SUR	<b>FIX FERRETERÍAS</b> FELIPE ANGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL.: 613 132 1115	NUEVO LEÓN	<b>SUCURSAL MONTERREY</b> CARRETERA LAREDO #500, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
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CHIAPAS	<b>FIX FERRETERÍAS</b> AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083	PUEBLA	<b>SUCURSAL PUEBLA</b> AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUAUTLA/CINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
CHIHUAHUA	<b>SUCURSAL CHIHUAHUA</b> AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAUHTEMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL.: 614 434 0052	QUERÉTARO	<b>ARU HERRAMIENTAS S.A. DE C.V.</b> AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
CIUDAD DE MÉXICO	<b>FIX FERRETERÍAS</b> EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35, COL. CENTRO, C.P. 06060, CUAUHTEMOC, CDMX. TEL: 55 5522 5031 / 5522 4861	QUINTANA ROO	<b>FIX FERRETERÍAS</b> CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 5140
COAHUILA	<b>SUCURSAL TORREÓN</b> CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL.: 871 209 68 23	SAN LUIS POTOSÍ	<b>FIX FERRETERÍAS</b> AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL.: 444 822 4341
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