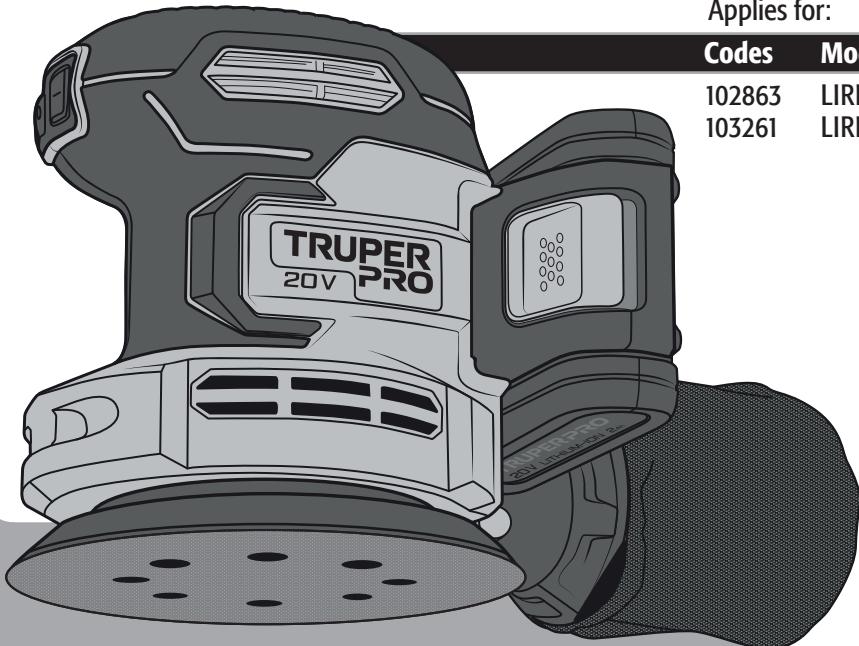


Manual

# Cordless random orbit sander

20 V==



Applies for:

Codes	Models
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102863	LIRI-20A
103261	LIRI-20AS

**LIRI-20A**

**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, please read this manual thoroughly before using the tool.

Please keep this manual for future references.

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

## Use and care recommendations

-  Use the provided charger or TRUPER brand chargers to charge the battery.
-  Follow the battery use and charging CONSIDERATIONS (page 5).
-  Do not turn on the tool when the sanding surface is over the workpiece.
-  Perform regular **MAINTENANCE** on your machine (page 9).

		LIRI-20A	LIRI-20AS
Code	•	102863	103261
Description	Cordless random orbit sander		
Base	•	5" (12.5 cm)	
Voltage	•	20 V---	
Speed	•	4 000 orbits/min - 11 000 orbits/min	
Dust collector	•	Yes	
Orbit diameter	•	2,5 mm	Eccentricity • 1.25 mm
Battery	•	20 V --- 2 Ah Li-ion battery Charging time: 90 min approx.	NOT INCLUDED
Charger	•	Input: Voltage: 127 V~ Frequency: 60 Hz Power: 55 W Output: 11 V --- 21 V --- 2 A Insulation: Class II      IP Grade : IP20	NOT INCLUDED

The power cable has cable ties 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 an Authorized TRUPER Service Center to prevent any risk of electric shock or significant accidents.

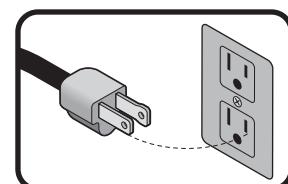
The electrical insulation construction of this tool is altered by splashes or spillage of liquids during its operation. Do not expose it to rain, liquids, and/or moisture.

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



## Power requirements

**WARNING** Tools with double insulation and reinforced insulation are equipped with a polarized plug (one prong is wider than the other). This plug fits into any polarized outlet and can only be connected in one way. If the plug does not fit into the outlet, turn it over. If it still does not fit, contact a qualified electrician or install a polarized outlet. Do not alter the plug in any way. 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, ensure to use a sufficient gauge to carry the current that the tool will consume. A lower gauge cord will cause voltage drops in the line, resulting in power loss and motor overheating. The following table shows the correct size to be used depending on the cable length and the 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	Extension gauge Greater than 15 m
From 0 A to 10 A	3 (one to ground)	18 AWG(*)	16 AWG
From 10 A to 13 A		16 AWG	14 AWG
From 13 A to 15 A		14 AWG	12 AWG
From 15 A 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 VOLTECK grounded extension cord marked as 'Outdoor Use'. These extensions are specially designed for outdoor use and reduce the risk of electric shock.



**⚠️ WARNING!** Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury. **Keep all warnings and instructions for future reference.**

**Work area**

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

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.

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 an electrical 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.

Before adjusting, changing accessories, or storing the power tool, disconnect the plug from the power source, and/or remove the batteries if they are detachable.



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.

**Service**

Have your power tool repaired by a qualified person using only identical replacement parts.

This will ensure the safety of the power tool.

**Use and care of the battery-powered tool****Only recharge with the charger specified by TRUPER.**

Using the charger specified for one battery with another battery can cause a fire hazard.

**Use batteries specifically designed for the tool.**

Using any other battery can cause damage and fire hazard.

When the battery is not in use, keep it away from any metal objects such as clips, coins, keys, nails, screws, or any metal object that can make a connection between the terminals.



A short circuit between the terminals can cause burns or fire.

Under severe conditions, battery liquid may spill; avoid contact. If there is accidental contact, wash the area with water.

If there is contact with the eyes, seek medical attention.

Spilled liquid can cause irritation or burns.



This tool is in compliance with the Norma Oficial Mexicana (NOM).

# Safety warnings

⚠ for the use of cordless random orbit sanders ⚡

**TRUPER<sup>®</sup>**  
**PRO**

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

- Remove dust and any other debris for a safe working environment. Whenever possible, use a vacuum or extractor for dust collection.

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

- Do not use this machine to sand parts made of magnesium or containing asbestos.
- After extended periods of work, external metal parts and accessories may become hot.

**⚠ CAUTION** • Use professional respirators and TRUPER brand cartridges suitable 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; sparks can ignite the dust or even the internal bag.

- Do not use worn-out or broken sandpapers.
- Do not touch the moving sanding pad.
- Before starting to sand, ensure 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 meet its own power cord. Contact with a live wire causes the tool's metal parts to activate and can give the operator an electric shock.

## Batteries and charger

**⚠ DANGER** • Use only the included TRUPER charger to charge the tool's battery. Using another charger can cause a fire or injury risks.

**⚠ DANGER** • Use only batteries specifically designed for the tool. Other batteries may pose injury or fire risks.

- Connect the charger only to an AC power supply.

**⚠ DANGER** • Do not use the charger outdoors.

- Respect the "+"/-" polarity when charging.
- Never recharge a leaking battery.
- Do not use batteries or the charger for purposes other than those they were designed for.
- Do not modify the battery or charger contacts.
- Never expose batteries to temperatures exceeding 122°F (50°C).

**⚠ DANGER** • Never expose batteries to fire; they could explode.

**⚠ DANGER** • Keep batteries away from any metal objects such as clips, coins, keys, nails, screws, or any other object that could cause the terminals to make contact; this could lead to a short circuit that may cause burns or fires.

**⚠ CAUTION** • In abusive conditions, battery liquid may be expelled. Avoid contact. If accidental contact occurs, wash with plenty of water, rinse with lemon juice and vinegar. If the liquid meets the eyes, rinse with plenty of water for several minutes and seek immediate medical assistance. Liquid expelled from batteries can cause irritation or burns.

**⚠ CAUTION** • To increase battery lifespan, discharge it completely at least once a month. Do not leave the battery uncharged for more than three months. Always charge the battery to its full capacity.

- Avoid constant stopping while working with the tool; this could prevent battery damage.

## Considerations for battery use

The battery comes DISCHARGED from factory. It will be necessary to charge it for around 6 hours before use.

- The normal charging temperature is from 32°F to 113°F. Out of this range, charging is automatically suspended until it reaches the proper temperature. The normal discharge/working temperature is from 32°F to 167°F. If 167°F is exceeded, the electronic control cuts off power until it reaches the optimal temperature range. When the battery is below normal voltage during work, the tool stops operating.
- Between each charge, give the charger a 15-minute rest.
- In a warm environment or after prolonged use, the battery may become too hot to recharge. Allow the battery to cool before attempting to recharge it.

## Tool/battery protection system

**⚠ CAUTION** • The tool is equipped with a system that automatically stops the tool to prolong the tool and the batteries lifespan. This occurs in the following cases:

**Overload.** When the tool is forced, the battery consumes abnormally high current levels. Stop the overworked task and restart the tool.

**Overheating.** Allow the tool and battery to cool down before restarting.

**Over-discharge.** The battery level is not sufficient. In this case, remove the battery from the tool and charge the battery.

## Battery charging

1. Plug the charger into a 127 V~ outlet (The green charge indicator light will turn on).

2. Insert the battery into the charger by sliding it as shown in the image. 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.

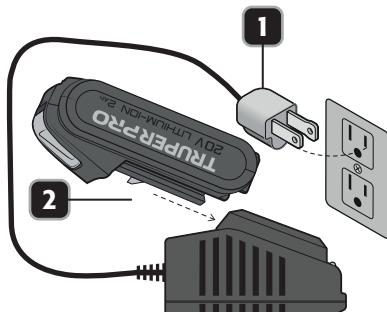
• Disconnect the charger from the power source once charging is complete.

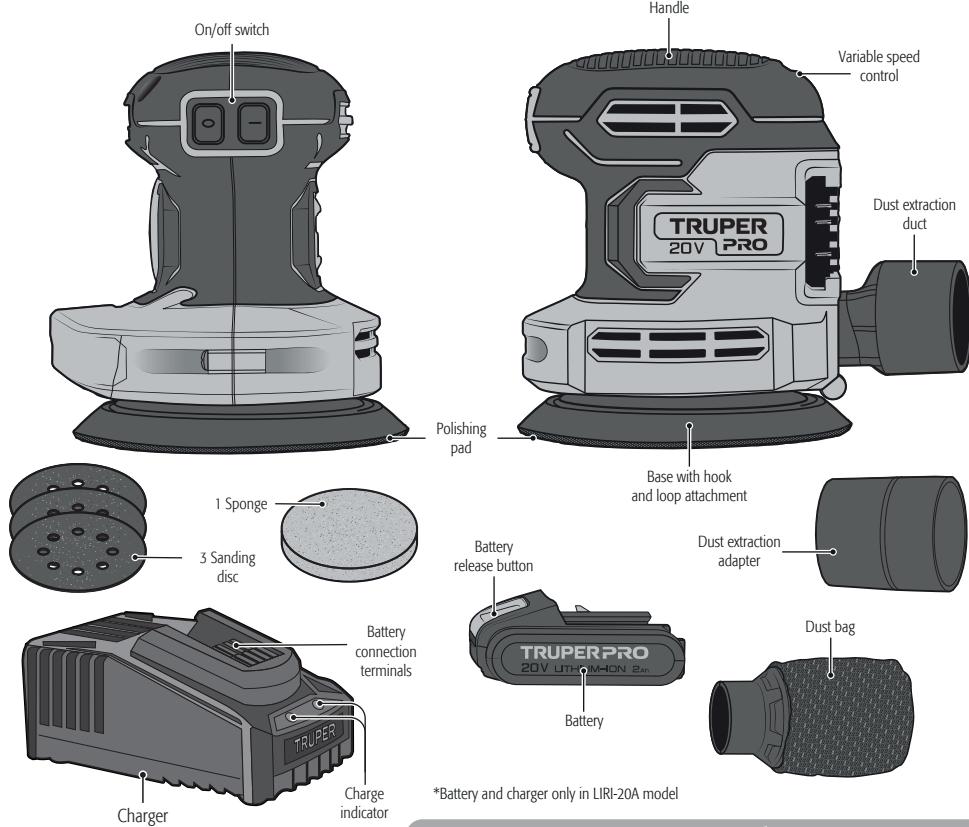
• If the red-light flashes, it indicates that the battery is defective; replace it with a new one.

• If the green light flashes, it indicates 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 it.





## Preparation

### Sander assembly

1. After charging, slide the battery into the designated place on the tool. A simple push and light pressure will be enough. To remove the battery, press the release button (A) and slide it out of the tool.

2. The sander is equipped with a dust bag. To install it, slide the dust bag over the dust outlet at the back of the sander.

**Empty the dust bag regularly.** For more efficient operation, empty the dust bag every 5-10 minutes. To empty the dust bag, first remove it from the dust extraction outlet and then shake out the dust.

**WARNING** To prevent the possibility of sanding dust or foreign objects being thrown into your face or eyes, never attempt to use the sander without properly installing the dust bag.

## Sanding disc selection

- Available grits range from very coarse to very fine.
- Coarse grit is used for rough surfaces, medium grit for light work, and fine grit for finishing.
- It is advisable to conduct a test on a disposable piece to determine the appropriate grit for the specific job.
- Do not use the same disc for wood and metal. Metal particles can embed in the sandpaper and damage a wood surface.

Grit	Type
60 or less	Very coarse
80-100	Coarse
120-150	Medium
180-220	Fine
240 or more	Very fine

## Sanding disc installation

**⚠ WARNING** Always ensure the sander is turned off before attaching the sandpaper.

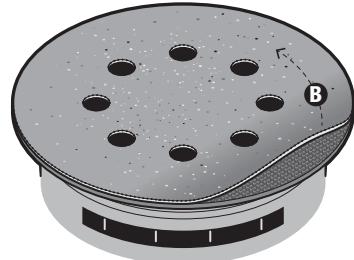
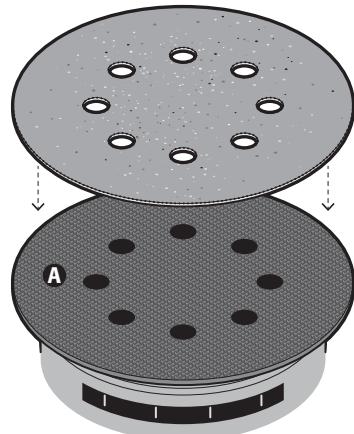
- Select the appropriate grit of sandpaper.
- Remove dust and debris from the pad and its hook and loop base (A).
- Align the holes of the sanding disc with the holes on the pad and press firmly. Proper hole alignment allows dust extraction to work.

• To remove the sanding disc, peel it off the base (B).

**⚠ CAUTION** • Regularly clean accumulated dust on the hook and loop base and replace the sanding disc before it wears out completely; otherwise, the hook and loop base can be damaged and lose adhesion with the sandpaper.

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

**⚠ CAUTION** • If there is premature wear on the hook and loop attachment, there may be excessive pressure on the tool during operation.

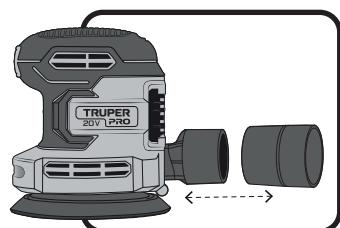


## Dust extraction

The sander is equipped with a dust extraction adapter designed to collect generated dust during the task. Insert the dust extraction adapter into the rear dust extraction outlet and ensure it is securely tightened. Then, connect the adapter to a vacuum hose.

When using it, start the vacuum first and then the sander. If you stop sanding, turn off the sander first and then the vacuum.

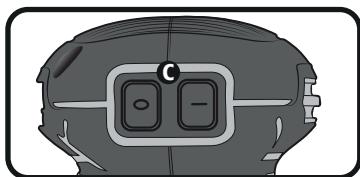
**⚠ CAUTION** Always connect the adapter with a 32 mm vacuum hose.



## Power on

To turn on your sander (C), press the protective cover over the switch to the position marked "I".

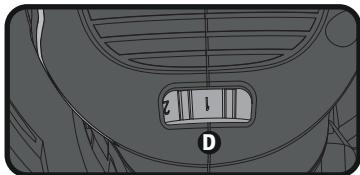
To stop your sander, press the protective cover to the position marked "0".



## Speed control

With the variable speed control (D), you can select the required speed (even while it is operating). The required speed depends on the material and should be determined through practical testing.

After extended periods of work at low speed, allow the machine to cool by running it for approximately 3 minutes at maximum speed without load.



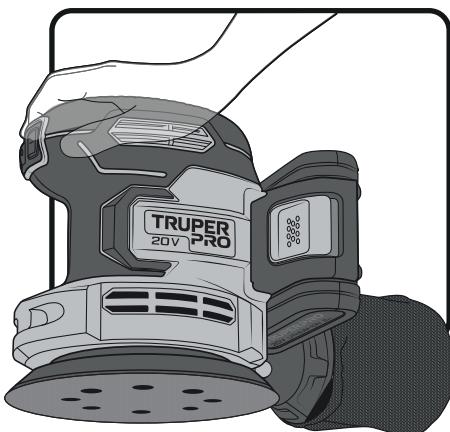
This sander has been designed for sanding wood, metal, plastic, and similar materials. It can be used for repetitive sanding and fine finishes. Due to its size, it is ideal for finishing work.

## Sander operation

The sanding workpiece must be secured. If it is small or moves during sanding, it must be clamped in a vice or held securely.

Make sure to hold the sander firmly while it is on and gently apply it to the workpiece, as it may "jump" upon initial contact.

Hold the sander flat against the work and move it slowly, preferably in a smooth, circular motion. Regularly check the condition of the sandpaper and replace it when worn out for the best results.



## Cleaning and care

- Remove the battery pack from the tool before making any adjustments, servicing, or maintenance.
- When cleaning plastic parts, avoid using solvents. Most plastic materials can be damaged by various types of commercial solvents.
- To clean dirt or dust, use a dry cloth or compressed air.

**WARNING** When using compressed air to clean particles, ALWAYS wear safety glasses with side shields or a face shield; if a large amount of dust is expelled, also use a dust mask.

## For battery-powered tools

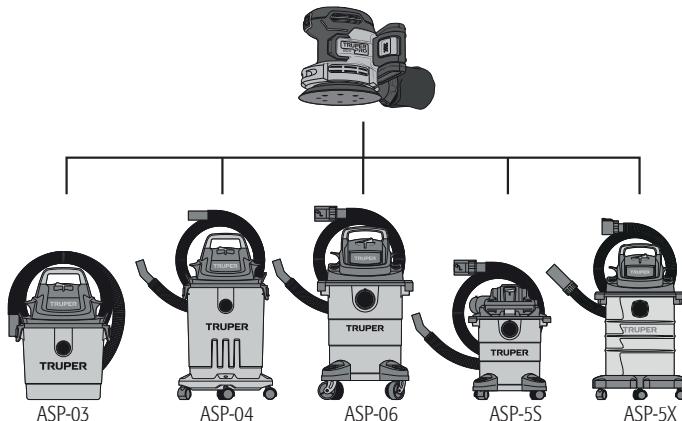
- Always store your power tool in a dry place.
- The ambient temperature range for the use and storage of the tool and battery is from 32°F to 113°F
- The recommended ambient temperature range for the charging system during charging is from 32°F to 113°F

## Accessories

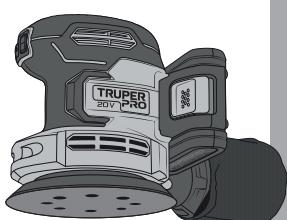
Replacement	Code	Item
 Replacement pad	103635	BASE-LIRI-20A

## Usage tips

### Compatibility with vacuums



Problem	Cause	Corrective action
The sander loses efficiency.	<ul style="list-style-type: none"><li>Low battery.</li></ul>	<ul style="list-style-type: none"><li>Charge the battery.</li></ul>
The battery is leaking.	<ul style="list-style-type: none"><li>Normal minor dripping in extreme temperatures or after heavy use.</li><li>Intense or very noticeable dripping due to a damaged battery.</li></ul>	<ul style="list-style-type: none"><li>Immediately clean any liquid from skin or clothing with water and soap.</li><li>Replace the battery immediately.</li></ul>
The battery doesn't charge, and the charger light doesn't turn on.	<ul style="list-style-type: none"><li>Battery poorly placed in the charger.</li><li>Charger not properly plugged into the power outlet.</li></ul>	<ul style="list-style-type: none"><li>Insert the battery correctly into the charger.</li><li>Ensure that the charger plug is securely connected to the power outlet.</li></ul>
The sander heats up after prolonged periods of work.	<ul style="list-style-type: none"><li>Normal heating due to energy absorption generated by the motor gears and electricity during work.</li></ul>	<ul style="list-style-type: none"><li>Allow the sander to cool down in intervals of 5 minutes.</li></ul>
The battery heats up during operation.	<ul style="list-style-type: none"><li>Normal heating due to mechanical and electrical energy absorption during work.</li></ul>	<ul style="list-style-type: none"><li>Stop using the sander for a 5-minute period to let the battery cool down.</li></ul>
The battery heats up during charging.	<ul style="list-style-type: none"><li>Normal heating due to chemical reactions inside the battery during charging.</li></ul>	
The charger heats up during charging.	<ul style="list-style-type: none"><li>Normal heating due to voltage regulation.</li></ul>	



In the event of any problem contacting an Authorized Truper Service Center, please see 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 0187-873 to get information about the nearest Service Center.

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BAJA CALIFORNIA SUR	<b>FIX FERRETERÍAS</b> FELIPE ÁNGELES 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 ALMECTA, C.P. 72710, CUAUTLACINGO, PUE. TEL: 222 282 8282 / 84 / 85 / 86
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GUERRERO	<b>CENTRO DE SERVICIO ECLIPSE</b> CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL: 747 478 5795	TLAXCALA	<b>SERVICIOS Y HERRAMIENTAS INDUSTRIALES</b> PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL: 222 271 7502
HIDALGO	<b>FERREPRECIOS S.A. DE C.V.</b> LIBERTAD ORIENTE #304 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL: 775 753 6615 / 775 753 6616	VERACRUZ	<b>LA CASA DISTRIBUIDORA TRUPER</b> BLVD. PRIMAVERA: ESQ. HORTENSIA S/N, COL. PRIMAVERA C.P. 93308, POZA RICA, VER. TEL: 782 823 8100 / 826 8484
JALISCO	<b>SUCURSAL GUADALAJARA</b> AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL VALLE, C.P.: 45655, TLAJOMULCO DE ZÚÑIGA, JAL. TEL: 33 3606 5285 AL 90	YUCATÁN	<b>SUCURSAL MÉRIDA</b> CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL: 999 912 2451
MICHOACÁN	<b>FIX FERRETERÍAS</b> AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA, MICH. TEL: 443 334 6858		

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102863	LIRI-20A	<b>TRUPER® PRO</b>
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