

Manual

Finishing Sander

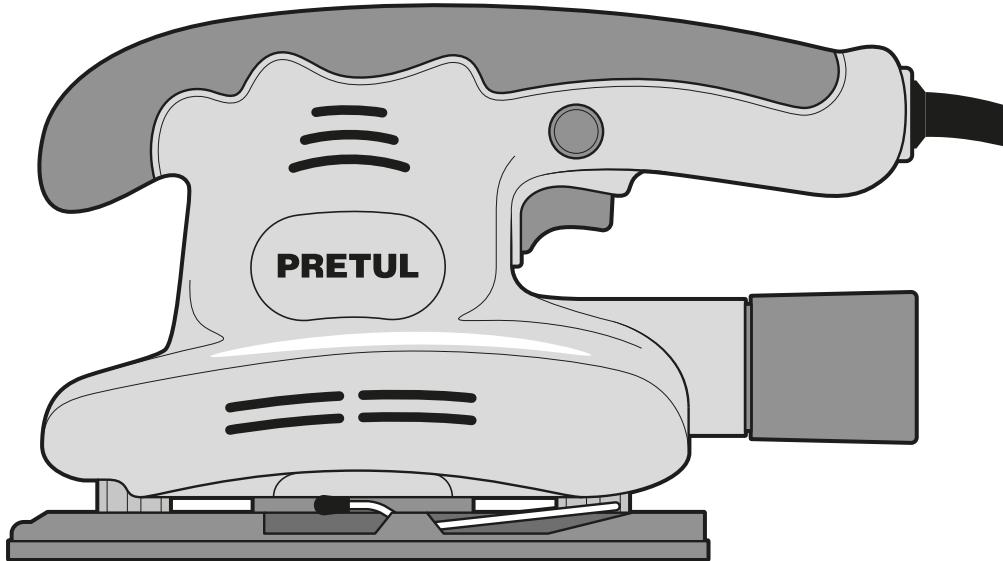
LIOR-1/3P4

0.2 Hp

Power

1/3

Sanding sheet



Applies for:

Model

Code

LIOR-1/3P4

28220



CAUTION



Read the user's manual thoroughly
before operating this tool.



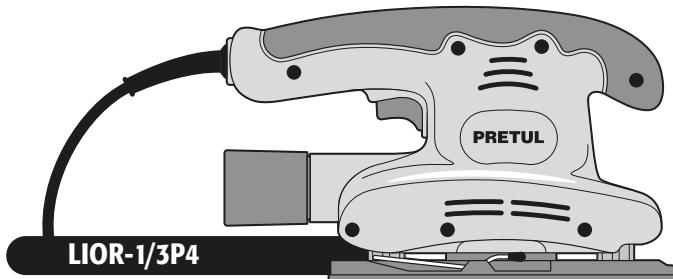
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CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.



LIOR-1/3P4

Code	•	28220
Description	•	Finishing Sander
Sanding Surface	•	3-1/2" x 7-3/8"
Voltage	•	127 V~
Frequency	•	60 Hz
Current	•	1.25 A
Power	•	0.2 Hp
Speed	•	12 000 orbits/min
Work Cycle	•	20 minutes' work per 10 min rest. Maximum 1 hour 30 minutes daily .
Conductors	•	18 AWG x 2C with 167 °F insulation temperature.
Insulation	•	Class II
	IP Grade	•
		IP20

Power cord grips used in this product: Type "Y".

Build quality: Reinforced insulation

Thermal insulation on motor winding: Class E

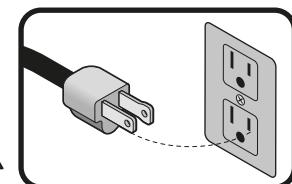
⚠ WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a  TRUPER® Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

⚠ WARNING Before gaining access to the terminals all power sources should 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 will only fit in the right way into a polarized outlet. If the plug cannot be introduced into the outlet, reverse the plug. If it still doesn't fit, call a qualified electrician to install for you a polarized outlet. Do not alter the plug in any way. Both insulation types eliminate the need of both a grounded third power cord with three prongs or a grounded power connection.



⚠ WARNING When using an extension cable, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension gauge	
		from 6' to 49'	higher than 49'
from 0 A and up to 10 A	3 (one grounded)	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 safe to use only if the extensions have a built-in artifact for over current protection.

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

⚠ WARNING When operating power tools outdoors, use a  VOLTECK grounded extension cable labeled "For Outdoors Use". These extensions are specially designed for operating outdoors and reduce the risk of electric shock.



⚠ WARNING! Read carefully all safety warnings and instruction listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause loss of control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

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

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.



Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes or long hair may get caught in moving parts.



If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.



The correct tool delivers a better and safer job at the rate for which it was designed.

Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

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

These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.



Power tools are dangerous in the hands of untrained users.

Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.



Most accidents are caused due to poor maintenance to the tools.

Keep the cutting accessories sharp and clean.

Cutting accessories in good working conditions are less likely to bind and are easier to control.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a  TRUPER® Authorized Service Center using only identical spare parts.

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



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

Safety warnings for Sanders

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CAUTION • Observe applicable regulations when sanding painted surfaces. Use extra care when the paint is lead-based.

• Remove dust and any other type of debris to assure a safe working environment. When possible use a vacuum cleaner or a dust extractor.

CAUTION • To be protected against dust and smoke generated when sanding everybody in the work area should wear a professional breathing mask.

• Do not use this tool to sanding pieces containing magnesium or asbestos.

• After long work cycles the metallic outer parts and accessories may get hot.

CAUTION • Use a  **TRUPER®** professional breathing mask and cartridges suited for paint dust and vapors. Regular painter masks do not offer the right protection.

WARNING • Do not allow children and pregnant women enter the work area.

WARNING • Remove the dust collecting container (not included) before sanding metal. Sparks may ignite dust and the inner pouch.

• Do not use worn or ripped sanding sheets.

• Do not touch the sanding sheet when moving.

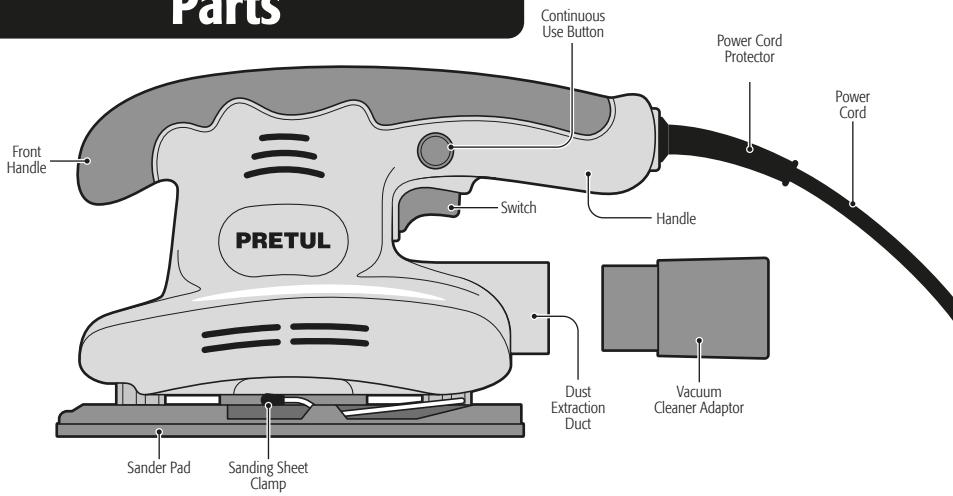
• Before sanding, double-check all foreign objects such as nails or screws are removed from the work piece.

WARNING • Hold the tool by the insulated gripping surfaces. The sander belt could make contact with its own feeding power cable.

Contact with a power conducting cable makes the tool metal parts are also powered and give the operator an electric shock.



Parts



Start Up

Selecting the Sanding Sheet

- Before setting up the sander select the right grain for the job.
- Grains available vary from very coarse to very fine.
- Coarse grain is used to sand rough surfaces, medium grain for light work and fine, for finishing purposes.
- Is advisable to test with disposable pieces to determine the right grain for each particular job.
- Do not use the same sheet to sand wood or metal. Metal particles may embed into the sander and damage the wood surface.

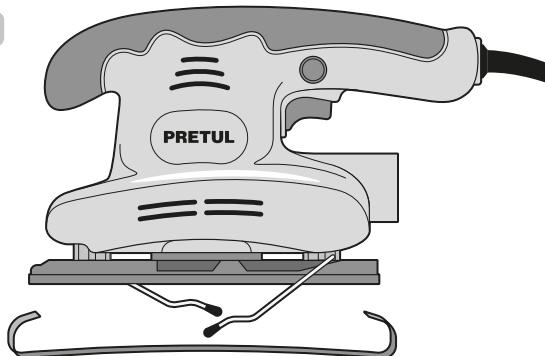
- In case the sanding sheet installed has no matching orifices, punch the holes so that the dust extraction system works right.

Grain	Type
60 or lower	very coarse
80 - 100	coarse
120 - 150	medium
180 - 220	fine
240 or higher	very fine

Installing the Sanding Sheet

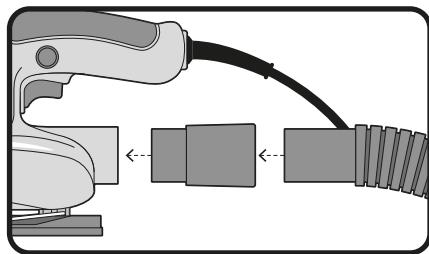
- To install the sanding sheet, release the clamps on both sides of the sander.
- Set one end of the sanding sheet under one of the clamps and secure. Pull the other end so it stays uniformly onto the base.
- Verify the orifices (if any) match those in the base. Then adjust the other side.
- The sheet must be perfectly fastened; otherwise there could be excessive wear in the base.

CAUTION Do not keep on using the tool if the sanding sheet is worn or damaged.



Dust extraction with vacuum cleaner

- Before connecting the tool to the power, place the vacuum cleaner adapter in the dust extraction duct.
- Connect the hose or extension tube of the vacuum cleaner to the adapter.

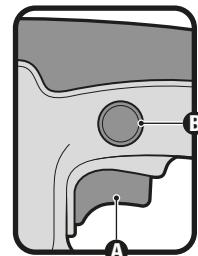


Start Up and Operation Control

- **Intermittent Operation:**
Connect the plug into the power outlet.
To turn on the tool, press switch (A).
To turn off the tool, just release the switch.
- **Continuous Operation:**
Connect the plug into the power outlet.
Press the switch (A) and block it pushing the continuous use button (B).
To stop its function, press the switch and then release it.

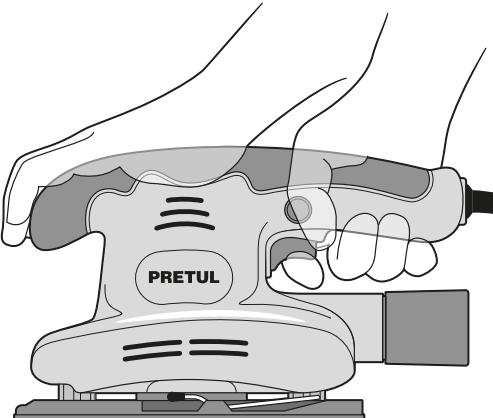
CAUTION Do not turn on the tool when the sanding sheet surface is onto the work piece.

CAUTION Before turning off the tool move it away from the work piece.



Sander Operation

- Turn on the sander before setting it on the work piece. Hold it with both hands, one in the handle, the other in front handle.
- Keep the sander base parallel to the work piece surface.
- Press downwards making circular movements and verifying the entire sander base is supported on the work piece.
- Use moderate pressure. Do not force the sander. Run in at a moderate speed. Overheating may occur if too much pressure is applied. The motor will run slow leading to inefficient sanding and damage to the motor.
- If after sanding you see marks on the work piece surface sand again using a sanding sheet with coarser grain to eliminate the marks. To finish the sanding operations, replace back the previous sanding sheet. Replace the worn sheet with a new one.
- Do not wear out the sanding sheet completely. Replace before starts wearing out.



Cleaning and Care

Keep the motor housing ventilation slots clean and uncovered. Apply compressed air after each use. In case of malfunctioning go only to  **TRUPER®** Authorized Service Center.

Carbon Brush Replacement

Check periodically the carbon brushes when worn. Replace only at a  **TRUPER®** Authorized Service Center. After replacing the carbons ask the technician to double-check the new carbon brushes can move freely in

the carbon housing. Ask to have the tool turned on and keep it running 5 minutes to make even the contact of carbons and commutator.

Use only original  **TRUPER®** spare carbon brushes, designed specifically with the right strength and electric resistance for each type of motor. Carbon brushes with different specifications may damage the motor.

When replacing carbon brushes both carbons should be replaced simultaneously.

Authorized Service Centers

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In the event of any problem contacting a **TRUPER®** Authorized Service Center, please see our webpage 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	DE TODO PARA LA CONSTRUCCIÓN GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL: 449 994 0557	MORELOS	FIX FERRETERÍAS CAPITAN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL: 735 352 8931
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COAHUILA	SUCRASAL TORREÓN CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL: 871 209 6823	SAN LUIS POTOSÍ	FIX FERRETERÍAS AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL: 444 822 4341
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Code

28220

Model

LIOR-1/3P4

Brand**PRETUL®**

This product is guaranteed for 1 year. To make the warranty valid or purchase parts and components you must present the product in Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 or at the establishment where you purchased it, or at any Truper® Service Center listed in the annex to the warranty policy and/or in www.truper.com. Transportation costs resulting from compliance of this warranty will be covered by  **TRUPER®**

For questions or comments, call **800-690-6990**. Made in China. Imported by Truper S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257

**1**
YEAR

Stamp of the business. Purchase date: