

Manual

1/4-Sheet orbital finishing sander

2 A

Motor

1/4

Sandpaper

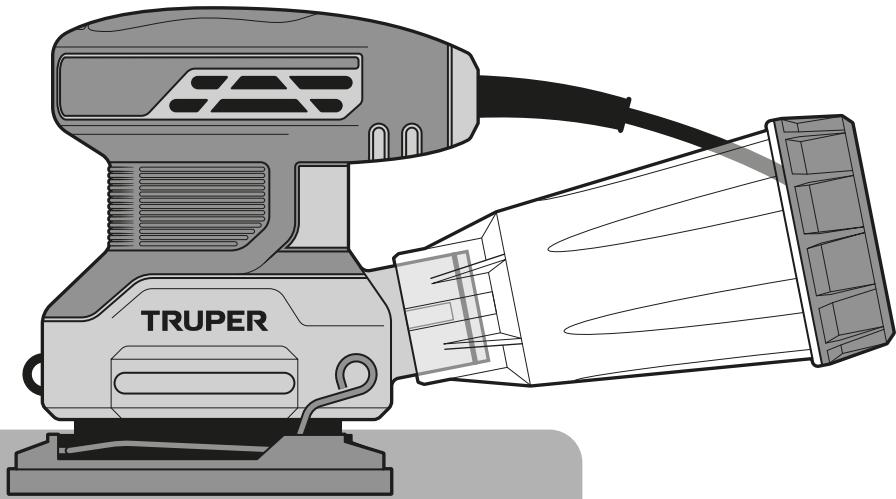
Applies for:

Code

Model

102746

LIOR-1/4A3



LIOR-1/4A3



Read this manual thoroughly
before using the tool.



Technical data.....	3
Power requirements.....	3
 General power tool safety warnings.....	4
 Safety warnings for finishing sanders.....	5
Parts.....	5
Preparation.....	6
Start up.....	8
Maintenance.....	9
Notes.....	10
Authorized Service Centers.....	11
Warranty policy.....	12

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.

Use and care recomendations



RESPECT WORK CYCLES.

30 min of work for 15 min of rest. Daily maximum 3 hours.



Never use the cord to carry, lift or disconnect the tool.



DON'T Turn on the tool when the sandpaper surface is on the workpiece



To **PROLONG** the life of your tool,

1 Clean with compressed air (Blow), after each use.



Perform periodic **MAINTENANCE** on your machine (page 9).

LIOR-1/4A3

Code	•	102746
Description	•	1/4-Sheet Orbital Finishing Sander
Base	•	4.3" x 4"
Voltage	•	127 V~
Frequency	•	60 Hz
Current	•	2 A
Speed	•	14 000 OPM
Power	•	240 W
Dust collection	•	Yes
Duty cycle	•	30 minutes work per 15 minutes idle. Maximum 3 hours per day.
Conductors	•	18 AWG x 2C with insulating temperature of 221 °F
Insulation	•	Class II

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

Build quality: Reinforced insulation.

Thermal insulation on motor winding: Class F.

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.

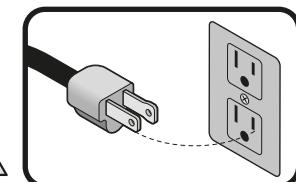
Do not expose to rain, liquids and/or dampness.

WARNING Before gaining access to the terminals all power sources should be disconnected.



Power requirements

WARNING Tools with double insulation 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. Double insulation eliminates 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 ft to 49 ft	higher than 49 ft
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 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-2006

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 instructions 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, jewelry, 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).

Cautions with dust and residues

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

- To have a safe work environment remove dust and any other debris. When possible use a vacuum cleaner or a dust recollection extractor.

⚠ CAUTION • Everybody within the work area shall wear professional breathing devices to be protected against dust and smoke generated when sanding.

- Do not use this tool to sand pieces containing magnesium.

⚠ CAUTION • Wear TRUPER brand professional breathing devices and cartridges suitable for working with paint dust and vapors. Regular painting masks do not offer that type of protection.

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

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

⚠ WARNING • Remove the dust bag before sanding metal, sparks can ignite the dust or even the bag.

- Do not use worn or broken sandpaper.
- Do not touch the moving sanding sheet.
- Before you start sanding, make sure you have removed all foreign objects such as nails or screws from the workpiece.

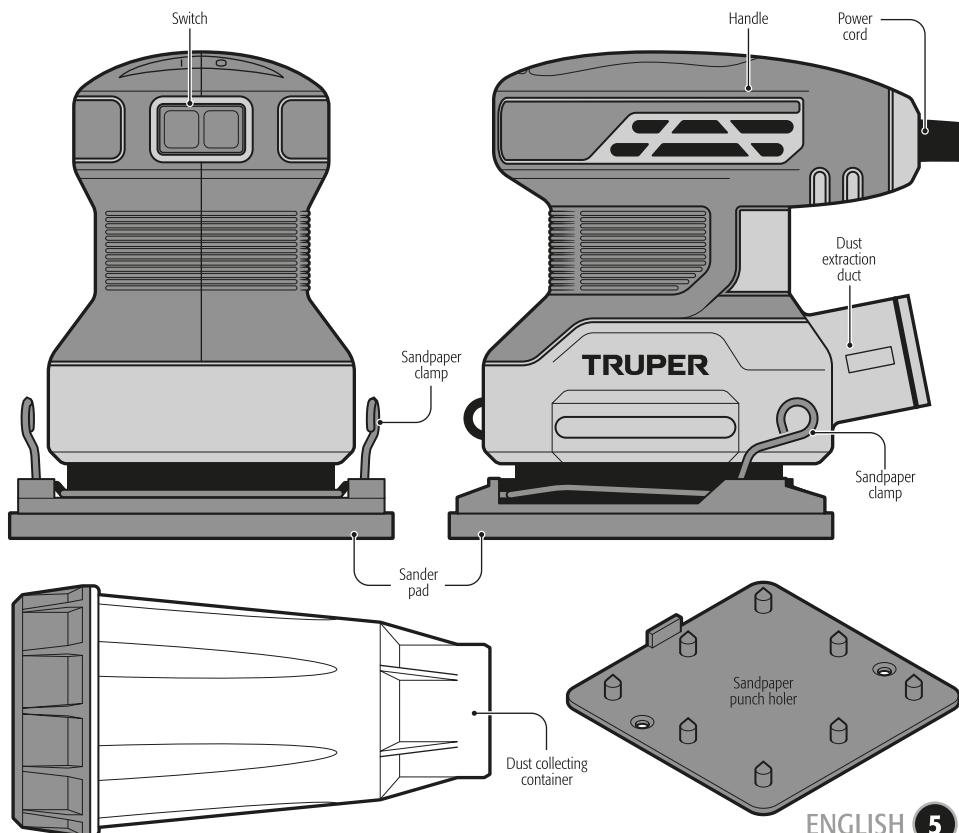
⚠ WARNING • Hold the tool by insulated gripping surfaces, as the sandpaper could contact its own power cord.

Contact with a live wire also makes metal parts of the tool live and shocks the operator.

Wear adequate clothing

⚠ WARNING • Wear adequate clothes. Loose clothes, jewelry or long hair could get caught in the moving parts.

Parts



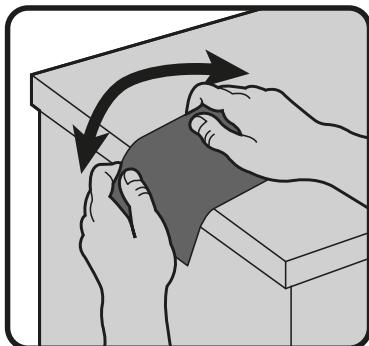
Selecting the sandpaper

- Select the right sander sheet grain.
- Grains available vary from very coarse to very fine.
- Coarse grain is used to sand rough surfaces, medium grain for light work and fine grain, 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.

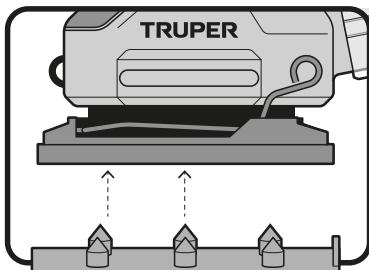
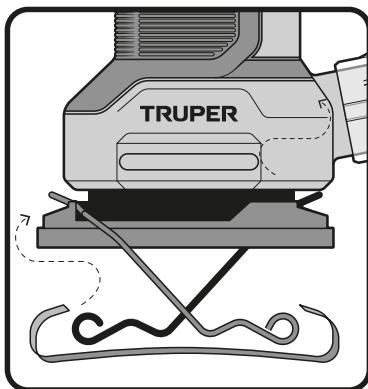
Grain	Type
60 or lower	very coarse
80 - 100	coarse
120 - 150	medium
180 - 220	fine
240 or higher	very fine

- To get the 1/4 sandpaper size compatible with the sander, fold the commercial size sheet (A-4) twice down the middle. You get four 10.8 mm x 14 mm sheets.

Installing the sand paper



- Release the sanding sheet jaws on both sides of the sander.
- Insert the narrow end of the sanding sheet under a clamp and secure by returning to the starting position; stretch the paper over the base
- Check that the holes correspond to those in the base, and then adjust the other side.



- In the event that the installed sandpaper does not have the corresponding holes, you can drill them with the included hole punch by matching the base of the sander with the properly supported hole punch and pressing down until the sheet is pierced.
- The paper must be well supported, otherwise there could be excessive wear on the base.

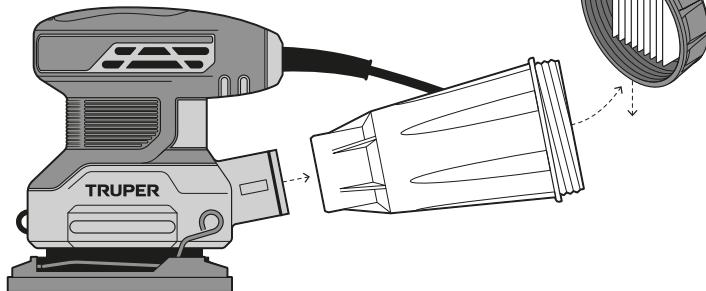
⚠️ WARNING Do not continue to operate the machine if the sandpaper is worn or damaged

Dust extraction

The sander is equipped with a dust collection container and a dust extraction port.

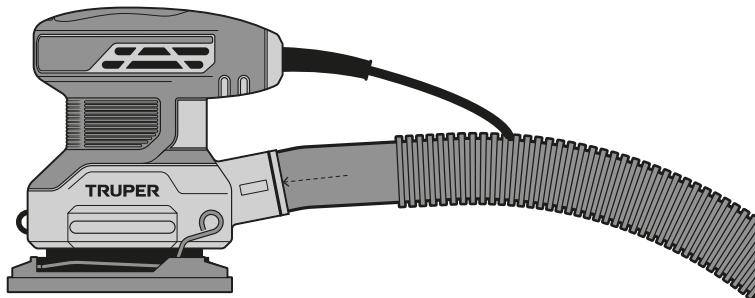
Installation of dust collection container

- Align the canister against the guide in the dust extraction port then push it all the way into the port so it is secure.
- When the container is half full, hold the body of the container and remove the microfilter lid by turning it counterclockwise.
- Dust the body of the container.
- Remove excess dust from the microfilter. You may notice that the total dust is not removed; this does not affect sanding performance.

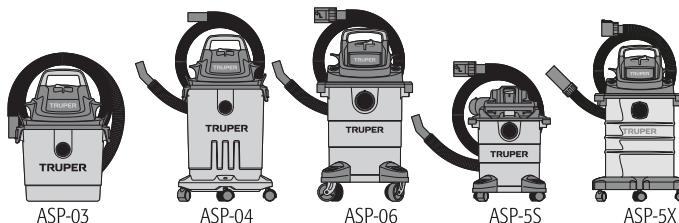


Vacuum installation

- For more efficient performance and cleaner operation, you can connect a vacuum cleaner to the dust extraction port instead of a dust collection container.
- Connect a vacuum hose to the port as shown in the image.



Compatibility with vacuum cleaners

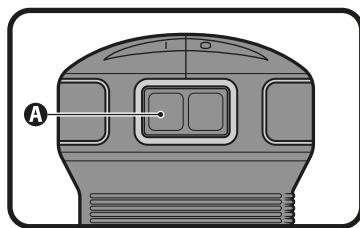


Turning On

- Connect the plug into the power outlet.
- To turn the tool on, press the switch (A) in the **I** position.
- To turn the tool off, press the switch to the **O** position.

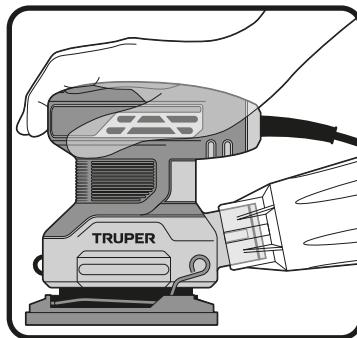
⚠ CAUTION Do not turn on the tool when the sandpaper surface is onto the work piece.

⚠ 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.
- Keep the sander base parallel to the work piece surface.
- Press down onto the work piece making circular movements and verifying the entire sander base is supported on the work piece.
- Use moderate pressure. Do not force the sander. Running 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 sandpaper with coarser grain to eliminate the marks. To finish the sanding operations replace back the previous sanding sheet. Also, you can replace the worn sheet with a new one.
- Do not wear out the sandpaper 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 a TRUPER Authorized Service Center

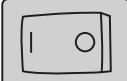
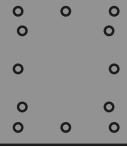
Carbon brush replacement

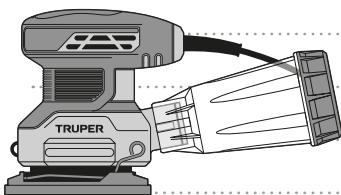
- Checked periodically the carbon brushes when worn. Replace only at a TRUPER Authorized Service Center.
- After replacing the carbons ask the technician to double-check the new carbon brushes can move freely in the carbon housing. Ask to have the tool turned on and keep it running 5 minutes to make 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.

Clean and empty the dust container

- Remove the dust cup from the tool.
- Hold the body of the dust container and remove the microfilter by turning it counterclockwise.
- Remove the dust from the body of the dust container.
- Shake excess dust from the microfilter or remove the dust with a soft brush. You may notice that not all the dust comes out of the microfilter. This will not affect sanding performance, but will reduce dust collection efficiency.

Spare parts accessories

Replacement	Code	Model	Replacement	Code	Model
	103184	INT-LIOR-1/4A3		103186	BP-LIOR-1/4A3
	103185	PINT-LIOR-1/4A3		103188	SUJ-LIOR-1/4A3
	103187	BASE-LIOR-1/4A3		103183	CB-LIOR-1/4A3



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 0537	MORELOS	FIX FERRETERÍAS CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
BAJA CALIFORNIA	SUCRASAL TIJUANA AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL FLORIDO II, C.P. 22244, TIJUANA, B.C. TEL.: 664 969 5100	NAYARIT	HERRAMIENTAS DE TEPIC MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
BAJA CALIFORNIA SUR	FIX FERRETERÍAS FELIPE ÁNGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL.: 613 132 1115	NUEVO LEÓN	SUCRASAL MONTERREY CARRETERA LAREDO #300, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
CAMPECHE	TORNILLERÍA Y FERRETERÍA AAA AV. ALVARO OBREGÓN #524, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808	OAXACA	FIX FERRETERÍAS AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300, TUXTEPEC, OAX. TEL.: 287 106 3092
CHIAPAS	FIX FERRETERÍAS AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083	PUEBLA	SUCRASAL PUEBLA AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUAUTLACINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
CHIHUAHUA	SUCRASAL CHIHUAHUA AV. SILVESTRE TERRAZAS #12-111, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAHUTÉMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052	QUERÉTARO	ARU HERRAMIENTAS S.A. DE C.V. AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
MEXICO CITY	FIX FERRETERÍAS EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35, COL. CENTRO, C.P. 06060, CUAHUTÉMOC, CDMX. TEL.: 55 5522 5031 / 5522 4861	QUINTANA ROO	FIX FERRETERÍAS CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL, C.P. 77110 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 3140
COAHUILA	SUCRASAL TORRÉON CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORRÉON, COAH. TEL.: 871 209 68 23	SAN LUIS POTOSÍ	FIX FERRETERÍAS AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL.: 444 822 4341
COLIMA	BOMBAS Y MOTORES BYMTESA DE MANZANILLO BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL.: 314 332 1986 / 332 8013	SINALOA	SUCRASAL CULIACÁN AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL.: 667 173 9139 / 173 8400
DURANGO	TORNILLOS ÁGUILA, S.A. DE C.V. MAZURIO #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO. TEL.: 618 817 1946 / 618 818 2844	SONORA	FIX FERRETERÍAS CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. OBREGÓN, SON. TEL.: 644 413 2392
ESTADO DE MÉXICO	SUCRASAL CENTRO JILOTEPEC PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257, TEL.: 761 782 9101 EXT. 5728 Y 79 / 80 / 88	TABASCO	SUCRASAL VILLAHERMOSA CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 353 7244
GUANAJUATO	CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V. AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL.: 461 71578 / 79 / 80 / 88	TAMAULIPAS	VM ORINGS Y REPARACIONES CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRÍGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 926 7552
GUERRERO	CENTRO DE SERVICIO ECLIPSE CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL.: 747 478 5793	TLAXCALA	SERVICIOS Y HERRAMIENTAS INDUSTRIALES PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
HIDALGO	FERREPRECIOS S.A. DE C.V. LIBERTAD ORIENTE #304 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL.: 775 753 6615 / 775 753 6616	VERACRUZ	LA CASA DISTRIBUIDORA TRUPER BLVD. PRIMAVERA ESQ. HORTENSIA S/N, COL. PRIMAVERA, C.P. 93308, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
JALISCO	SUCRASAL GUADALAJARA AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL VALLE, C.P.: 45655, TLAJOMULCO DE ZÚÑIGA, JAL. TEL.: 33 3606 5285 AL 90	YUCATÁN	SUCRASAL MÉRIDA CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL.: 999 912 2451
MICHOACÁN	FIX FERRETERÍAS AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA, MICH. TEL.: 443 334 6858		

Code	Model	Brand
102746	LIOR-1/4A3	TRUPER PRO

Warranty. Duration: 3 year. Coverage: parts, components and workmanship against manufacturing or operating defects, except if used under conditions other than normal; when it was not operated in accordance with the instructive; was altered or repaired by personnel not authorized by TRUPER®. To make the warranty valid, present the product, stamped policy or invoice or receipt or voucher, in the establishment where you bought it or in Corregidora 35, Centro, Cuauhtémoc, CDMX, 06060, where you can also purchase parts, components, consumables and accessories. It includes the costs of transportation of the product that derive from its fulfillment of its service network. . Phone number 800-018-7873. Made in China. Imported by TRUPER, S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257, Phone number 761 782 9100.



Stamp of the business. Delivery date: