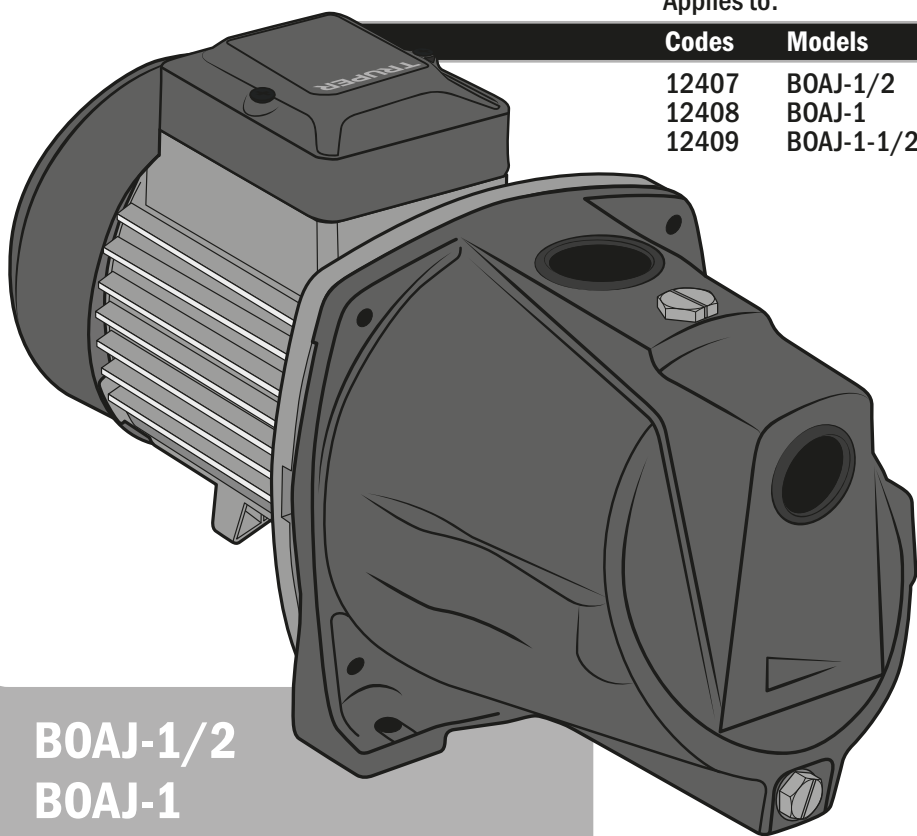


Manual

Cast iron jet pump

Applies to:

Codes	Models
12407	BOAJ-1/2
12408	BOAJ-1
12409	BOAJ-1-1/2





BOAJ-1/2
BOAJ-1
BOAJ-1-1/2



Read this manual thoroughly
before using the tool.



Technical data	3
Power requirements	3
 General safety warnings for power tools	4
 Safety warnings for water pump use	5
Parts	5
Installation	6
Startup	7
Maintenance	8
Accessories & replacements	8
Troubleshooting	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 recommendations



RESPECT WORK CYCLES

50 min work and 20 min rest. Maximum 6 hours daily.



ALWAYS ensure the pump has a constant water supply. Follow the installation instructions (page 6).



PURGE WITH WATER before turning on the pump for the first time, when used occasionally, or during maintenance (page 7).



INSTALL a foot valve at the end of the suction pipe **TO PREVENT THE PUMP** from running dry and **GETTING DAMAGED**.



Perform regular **MAINTENANCE** on your machine (page 8).

	B0AJ-1/2	B0AJ-1	B0AJ-1-1/2
Code •	12407	12408	12409
Description •	Cast iron jet pump		
Voltage •	127 V~		
Frequency •	60 Hz		
Speed •	3 400 RPM		
Current •	5 A	11 A	15 A
Power •	½ Hp	1 Hp	1½ Hp
Inlet and outlet diameter •	1-11.5 NPT		
Maximum suction depth •	29 ft 6 1/3"		
Maximum head height •	114 ft 10"	124 ft 8"	157 ft 6"
Maximum flow rate •	11.36 GPM	19.29 GPM	18.49 GPM
Maximum water temperature •	104 °F		
Conductors •	18 AWG	16 AWG	14 AWG
Work cycle •	50 min work and 20 min rest. Maximum 6 hours daily.		
Basic Insulation •	Class I		
IP rating •	IPX4		

Power cord grips used in this product: Type "Y"
Build quality: Reinforced insulation
Thermal insulation on motor winding: Class B

⚠ WARNING If the power cord is damaged, it must be replaced by the manufacturer or a TRUPER Authorized Service Center to avoid the risk of electric shock or serious injury. Splashes or spills during operation can compromise this tool's electrical insulation. Do not expose it to rain, liquids, or moisture.

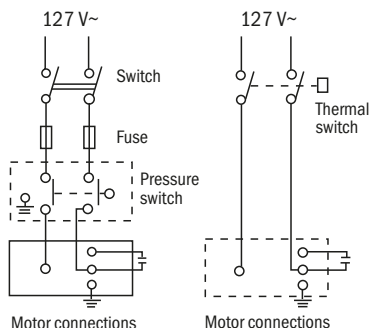
⚠ WARNING Ensure all power circuits are disconnected before accessing the terminals.



Power requirements

⚠ CAUTION Power connection must be made by a licensed electrician following the electrical diagram on the right.

⚠ CAUTION CAUTION Use a separate electrical circuit for the pump. The wires must not be smaller than #12 AWG, and the circuit must be protected with a 20 A time-delay fuse. Before connecting the motor, ensure the switch is in the OFF position and that the voltage matches the motor nameplate. Operating at a lower voltage will damage the motor.



⚠ WARNING All wiring, connections, and grounding must comply with the **NORMA OFICIAL MEXICANA NOM-001-SEDE, INSTALACIONES ELÉCTRICAS (UTILIZACIÓN)** or with local codes and regulations. Use a qualified electrician. The pump should be connected to a circuit with a residual current device rated at no more than 30 mA.

⚠ WARNING! Read all safety warnings, instructions, 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 those containing 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.

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 may 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.

Electrical safety

The tool plug must match the outlet. Never modify a plug. Do not use any 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.

Always use an extension cord designed for outdoor use when using a tool outdoors.

Using the right outdoor extension cord helps reduce the risk of electric shock.

If using the tool in a wet environment is unavoidable, use a power supply protected by a Ground Fault Circuit Interrupter (GFCI).

A GFCI reduces the risk of electric shock.

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.

Unplug the tool from the power source and/or remove the battery before adjusting, changing accessories, or storing it.

This helps prevent the tool from being accidentally started.

Store the tools out of the reach of children and keep them from being 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 no broken parts or other conditions 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, components, and accessories according to 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

To ensure the tool's safety, have it repaired at a TRUPER Authorized Service Center

only genuine replacement parts.

The machine should not be used by children or individuals with limited physical, sensory, or mental abilities, nor by those who lack experience or knowledge of how to use it, unless they are supervised by a responsible person or have received proper instructions.

Children should always be supervised to ensure they do not use the machines as toys. Close supervision is required if children or individuals with disabilities use or are near any household appliance.



Personal Safety

Be alert, watch your actions, 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 masks, slip-resistant shoes, helmets, and ear protection, in appropriate conditions significantly reduces the risk of personal injury.



To 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.

Safety warnings



for water pump use



TRUPER

Intended uses

- This pump is a stationary device designed to pump clean, neutral liquids without abrasive solids and at temperatures not exceeding 104°F. Any other use is inadequate.
- The device complies with the latest safety standards as long as it is used for its intended purpose. It must only be used within the allowed performance limits.
- It must not be used to pump explosives, fuels, aggressive materials, substances harmful to health, or wastewater.
- Improper use, modifications to the device, or the use of components not tested and approved by the manufacturer may cause unexpected damage to the device or the operator, and release the manufacturer from any legal responsibility.

CAUTION

- Do not install the pump outdoors or near wet areas.

WARNING

- Do not install the pump in areas with a risk of explosion or near flammable liquids or gases.

WARNING

- Do not direct the water jet at the pump or other electrical components. This poses a risk of fatal electric shock.

CAUTION

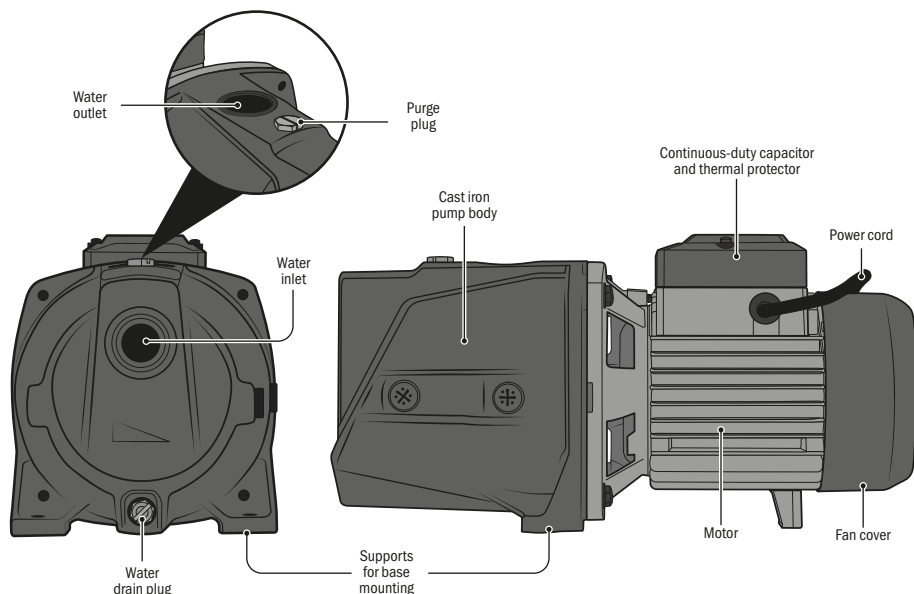
- Make sure the power cord does not come into contact with the water flowing through the pump.

- All repairs must be carried out only by a TRUPER Authorized Service Center. Otherwise, there is a risk of electric shock, and the warranty will be void.

- The symbols attached to the device should not be removed or covered. Any information on the device that is no longer legible should be replaced immediately.

- Read and follow the operating instructions before installing and starting the pump. Any malfunction caused by failure to follow these instructions may damage the pump and void the warranty.

Parts



Mounting

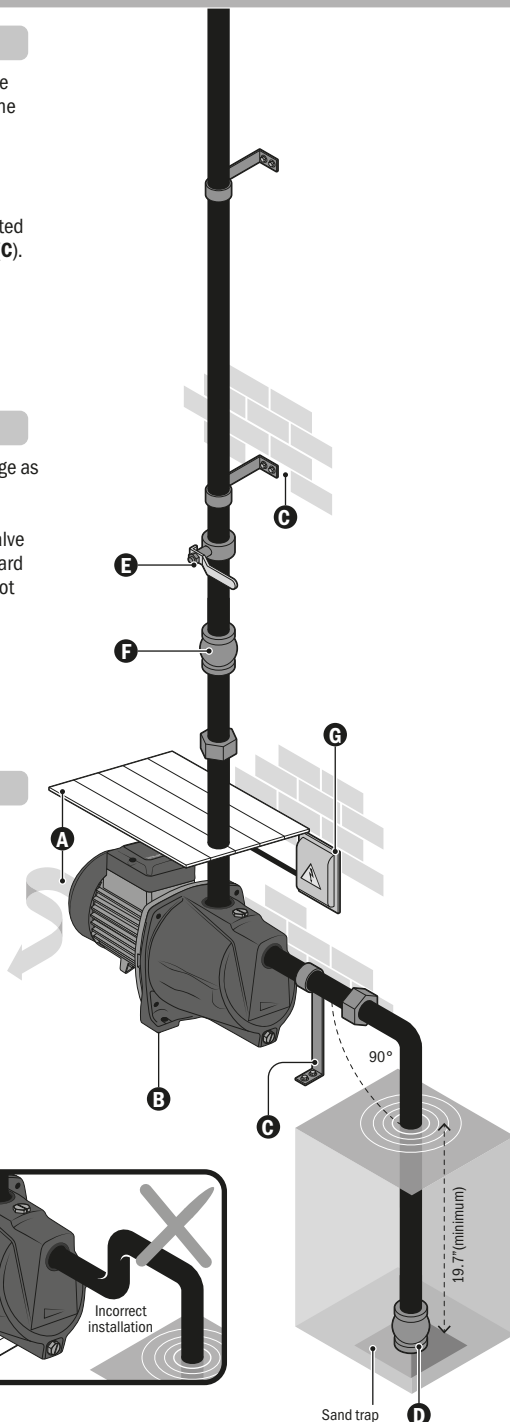
- Install the pump in a dry location sheltered from the elements, allowing airflow for proper ventilation (A). The ambient temperature should not exceed 104°F.
- Use bolts to fasten the pump to a concrete base to reduce vibration (B). Install the pump horizontally to ensure proper operation.
- The suction and discharge pipes should be supported on the floor or wall to avoid strain on the pump body (C).
- Avoid overtightening pipe connections to prevent damage.

Suction line (inlet)

- The suction pipe diameter should be at least as large as the pump's inlet.
- The pipe must be airtight, and its end must be submerged at least 20" in water, ideally with a foot valve (D). The pipe should be vertical, with a 90° bend toward the pump. **CAUTION** If these instructions are not followed, airlocks and bubbles may form, which will interfere with the pump's proper performance.

Discharge line (outlet)

- Install a gate (E) at the outlet to control flow and pressure.
- Install a check valve (F) between the outlet and the gate valve to prevent backflow of water columns over 65 ft.



Electrical connection

- Hire a licensed electrician to make the electrical connections to the power supply (**G**), in accordance with the applicable mandatory regulations.
- The fixed installation must include a device that ensures complete disconnection from the power supply.
- Check to make sure that the electrical requirements specified in this manual and on the pump's nameplate match the power supply capacity.
- Connect the pump to a grounded circuit and then connect the phases according to the wiring diagram on page 3 or on the pump's nameplate.
- The pump has a single-phase motor, protected against overload by a thermal device (overcurrent cutoff) built into the winding.

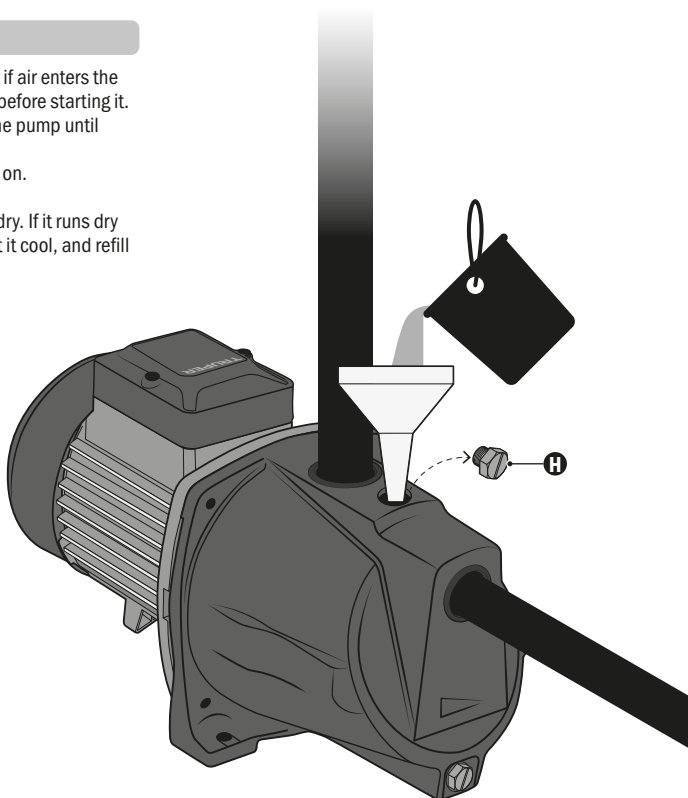
Startup

Purge

Before first use, after long inactivity, or if air enters the system, fill the pump with clean water before starting it.

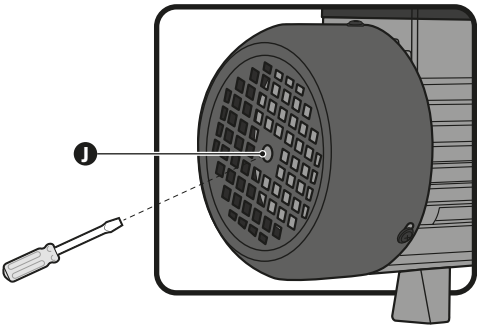
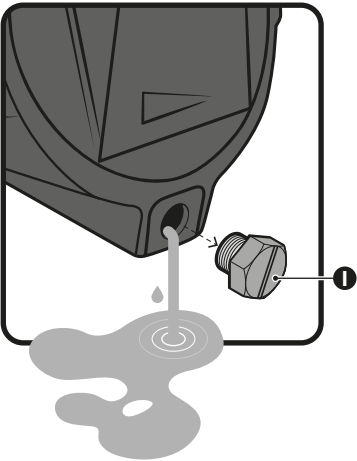
- Remove the purge plug (**H**) and fill the pump until water reaches the hole's level.
- Replace the plug and turn the pump on.

⚠ WARNING Never run the pump dry. If it runs dry accidentally, turn it off immediately, let it cool, and refill it with clean water.

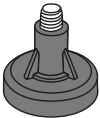


- The pump requires no maintenance if the following precautions are taken:
- In freezing conditions, drain the pump completely by removing the drain plug (I). Remember to purge the pump before restarting it.
- Periodically inspect and clean the foot valve (not included).
- If the pump will remain inactive for an extended period, it is recommended that it be drained completely, rinsed with clean water, and stored in a dry place.
- If the shaft does not spin freely, insert a screwdriver into the rear access hole (J) to release it.

⚠ WARNING Disconnect the pump from power before performing any maintenance.

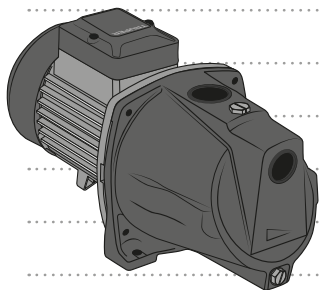


Accessories & replacements

Replacement	Code	Item	Description
	101721	PATA-BOAJ-1/2	Leveling foot for BOAJ-1/2 pump

Problem	Cause	Solution
Motor does not start.	<ul style="list-style-type: none"> • No power supply. • Impeller is stuck. 	<ul style="list-style-type: none"> • Check connections and voltage. • Release with screwdriver (see page 8).
Motor runs but does not pump water.	<ul style="list-style-type: none"> • Foot valve filter is clogged. • Excessive suction height. • Air intake in suction line. 	<ul style="list-style-type: none"> • Clean the filter. • Shorten suction line. • Make sure the pipe and seals for water intake are airtight and submerge the foot valve at least 19.7". <p>It is necessary to prime the pump again (see page 7). Check suction height.</p>
Insufficient flow rate.	<ul style="list-style-type: none"> • Suction height near limit. • Foot valve filter partially blocked. 	<ul style="list-style-type: none"> • Review and lower suction height. • Clean foot valve and suction pipe as needed.
The motor's thermal protector was triggered.	<ul style="list-style-type: none"> • Motor is overheating. • Impeller is stuck. 	<ul style="list-style-type: none"> • Check voltage and ventilation. • Release with screwdriver (see page 8).

If the problem cannot be resolved, please visit a TRUPER Authorized Service Center.
Failure to follow the above precautions may damage the pump and void the warranty.



In the event of any problem contacting an Authorized TRUPER 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

BAJA CALIFORNIA **SUCURSAL TIJUANA**
AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL
FLORIDO II, C.P. 22244, TIJUANA, B.C.
TEL.: 664 969 5100

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C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808

CHIAPAS **FIX FERRETERÍAS**
AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700,
TAPACHULA, CHIS. TEL.: 962 118 4083

CHIHUAHUA **SUCURSAL CHIHUAHUA**
AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL
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TEL.: 314 332 1986 / 332 8013

DURANGO **TORNILLOS ÁGUILA, S.A. DE C.V.**
MAZURIO #200, COL. LUIS ECHEVERRÍA, DURANGO,
DGO. TEL.: 618 817 1946 / 618 818 2844

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PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL
JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257
TEL.: 761 782 9101 EXT. 5728 Y5102

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CHILPANCIINGO, GRO. TEL.: 747 478 5793

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

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VALLE, C.P.: 45655, TLAJOMULCO DE ZUÑIGA, JAL.
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AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA
DE LA HUERTA, C.A. 58050, MORELIA, MICH. TEL.: 443 334
6858

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TEL.: 311 258 0540

NEUVO LEÓN **SUCURSAL MONTERREY**
CARRETERA LAREDO #300, 1B MONTERREY PARKS,
COLONIA PUERTA DE ANAHUAC, C.P. 66052, ESCOBEDO,
NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790

OAXACA **FIX FERRETERÍAS**
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TUXTEPEC, OAX. TEL.: 287 106 3092

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C.P. 72710, CUAUTLACINGO, PUE.
TEL.: 222 282 8282 / 84 / 85 / 86

QUERÉTARO **ARU HERRAMIENTAS S.A. DE C.V.**
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ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO.
TEL.: 427 268 4544

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C.P. 77710 PLAYA DEL CARMEN, Q.R.
TEL.: 984 267 3140

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SAN LUIS POTOSÍ, S.L.P. TEL.: 444 822 4341

SINALOA **SUCURSAL CULIACÁN**
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MORA, C.P. 80143, CULIACÁN, SIN.
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CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL.
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TABASCO **SUCURSAL VILLAHERMOSA**
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2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB.
TEL.: 993 353 7244

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TAMS. TEL.: 899 926 7552

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PRIMAVERA, C.P. 93308, POZA RICA, VER.
TEL.: 782 823 8100 / 826 8484

YUCATÁN **SUCURSAL MÉRIDA**
CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY,
MPIO. UMAN, C.P. 97390, MÉRIDA, YUC.
TEL.: 999 912 2451

Model	Code	Brand
BOAJ-1/2	12407	TRUPER®
BOAJ-1	12408	
BOAJ-1-1/2	12409	

Warranty. Duration: 2 years. 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:

