

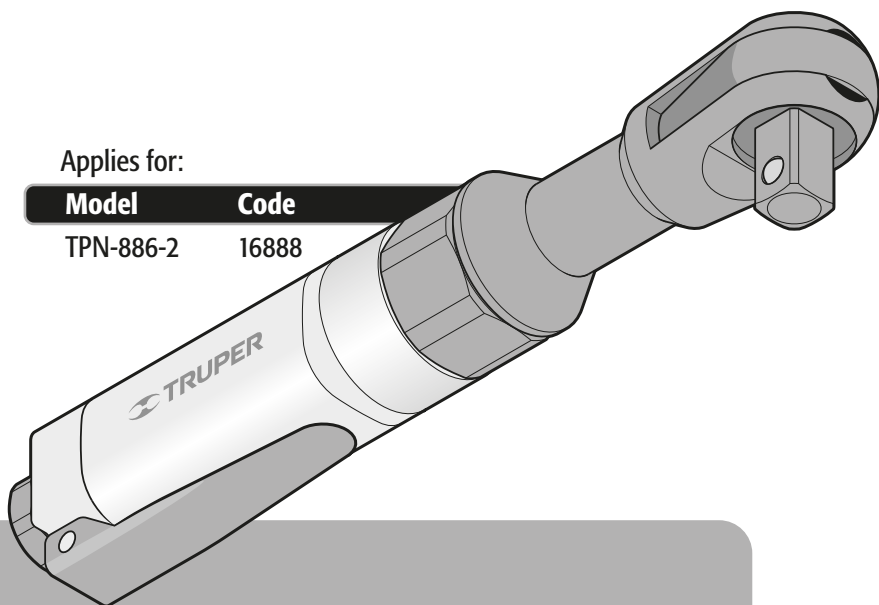
Manual

## Air Impact Ratchet

**3/8"**

Applies for:

Model	Code
TPN-886-2	16888



## TPN-886-2

**! WARNING**



Use oil continuously and dosed to lubricate the tool.

**! CAUTION**



Read this manual thoroughly before using the tool.



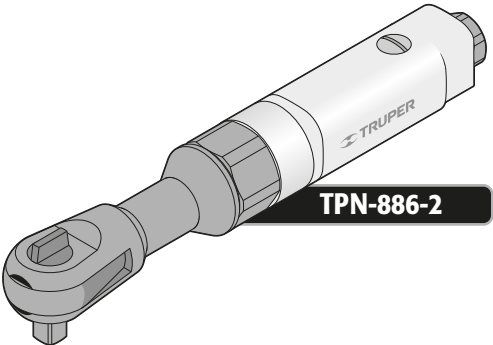
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 **CAUTION**

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.



TPN-886-2

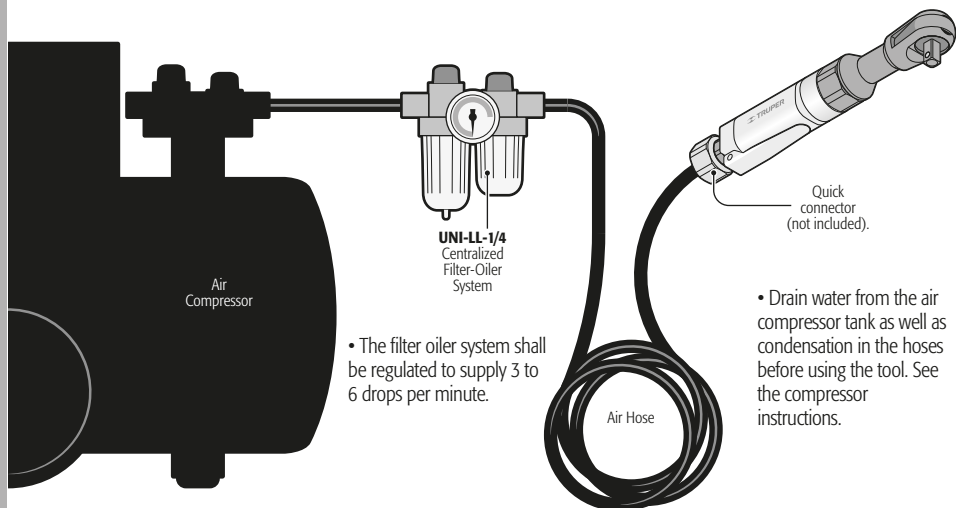
## TPN-886-2

Code	•	16888
Description	•	Air Impact Ratchet
Impact Mechanism	•	Rocking Dog
Square Impeller	•	3/8"
Maximum Torque	•	47 Nm - 67.5 Nm (35 lb-ft - 50 lb-ft)
Air Release	•	Head on
Free Speed	•	150 RPM
Weight without Accessories	•	2.5 lb
Air Pressure	•	90 PSI
Air Consumption	•	3 CFM
Air Input Connection	•	1/4 NPT
Hose Inner Diameter	•	3/8"

**CAUTION** Please consider the increase in pressure in the line or the hose inner diameter to compensate the use of too long hoses (more than 26.2 ft). The hose minimum inner diameter shall be 3/8" and the connectors shall be 1/4 NPT. Use the right size and good quality couplers and accessories.

## Filtering and lubrication requirements

**CAUTION** Dust, water and lack of oil specific for pneumatic tools are the main cause of potential malfunction of the tool. Setting up a **TRUPER** Brand **UNI-LL-1/4** centralized filter-oiler system is recommended. This system ensures lubrication reducing oil consumption 80% increasing significantly the quality of air the operator is breathing.



Keep your work area clean, tidy and well lit.

**CAUTION** Cluttered and dark areas may cause accidents.



Never use the tool in explosive areas or in the presence of flammable liquids or with no ventilation.

**DANGER** Sparks the tool generates could trigger an explosion or start a fire.



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

**WARNING** Distractions can cause losing control and cause accidents.



Avoid making contact with power lines and circuits.

**DANGER** Find and avoid power lines and circuits, especially hidden wiring as well as any grounded object.



Stay alert, use care and common sense.

**CAUTION** Familiarity with the tool operation could lead to distractions while using it. It could cause accidents.



Refrain from using the tool if tired or under the influence of drugs, alcohol or medication.

**DANGER** Being momentarily distracted while using the tool could cause severe personal injury.



Operate the tool with guards and protection devices in place and in good working condition.

**WARNING** Failure to comply with this warning is a hazard of severe personal injury.



Securely fasten and support the work piece.

**CAUTION** Use brackets and a stable work surface.

Never force the tool.

**CAUTION** Working within the tool's working design assures a better and safer job.



Keep the tool in a safe place and out of the reach of children.

**WARNING** Power tools are dangerous to inexperienced people.



Wear proper clothes.

**WARNING** Loose clothes, jewelry or long hair could get caught in the mobile parts.



Keep hands away from rotating and/or mobile parts.

**WARNING** Failure to comply with this warning is a hazard of severe personal injuries or crushing.



Wear adequate protective safety accessories.

**CAUTION** Wear eye protection, dust mask, non-skid safety shoes, helmet and ear plugs. In normal conditions, the risk of injury is reduced.



Unplug the air hose from the tool before carrying out maintenance or replacing accessories.

**WARNING** Prevent accidental startups that cause accidents.



Refrain from operating the tool if the switch is not working or is not properly assembled.

**WARNING** Failure to comply with this warning is a hazard of personal injury. Immediately send it to a **TRUPER** Authorized Service Center.



Do not overreach.

**CAUTION** Good balance and support lead to better controlling the tool in unexpected situations.



Never pull the air hose.

**WARNING** Do not use it to carry or unplug the tool from the air outlet. Damaged or tangled hoses may burst and project residues towards the operator.



Prevent unintentionally starting the tool.

**WARNING** Double-check the motor is OFF before lubricating, setting up accessories or carry out maintenance.



Remove brackets before turning on the tool.

**DANGER** Additional tools or vices installed in a rotating part could cause severe personal injury.



Double-check maintenance and good working conditions before using the tool.

**CAUTION** Carefully check mobile parts, alignment and assembly. Do it periodically. Look for any damaged element or parts not working properly. Repair immediately in a **TRUPER** Authorized Service Center.



Accessories.

**CAUTION** Use only accessories or spare parts indicated in this Manual or certified by **TRUPER**.



Never leave a running tool unattended.

**CAUTION** Turn off and disconnect tool after using. Set it in a safe position to avoid severe injury.

## Risk of injury in head and eyes



**⚠ WARNING** • Compressed air out of pneumatic equipment may be dangerous. Objects like brackets, burrs, splinters, dust and other residues may be impelled towards head and eyes due to high speed of the air flow. The air flow itself can only injure soft tissue such as eyes, ears, etc.

**⚠ CAUTION** • The tool attachments may get loose or break and project particles towards the operator or other operators in the work area.

## To prevent head and eyes injuries

- Always, when operating pneumatic equipment wear protection glasses in compliance with the ANSI-Z87.1 Standard. As additional protection, wear a mask.
- Never aim the air flow towards people or animals.
- Disconnect the air hose from the tool when not in use.
- Never set a tool unattended when connected to the air outlet.
- Before using the tool verify all the parts and accessories are perfectly secured.



## Risk of explosion



**⚠ WARNING** • Incorrect handling of pressure in pneumatic equipment may cause an explosion causing severe injuries.

## To prevent explosions

- Before using the tool double check the compressed air source is regulated to the tool specified pressure and must not exceed 200 PSI.

## Risk of hearing loss



**⚠ WARNING** • Being exposed long periods of time to noise pneumatic tools produce may damage hearing permanently causing hearing loss.

## To prevent hearing loss

- Always, when operating pneumatic equipment wear hearing protection in compliance with the ANSI S3.19 Standard



## Risk of inhaling particles



**⚠ WARNING** • Abrasive tools like grinders, sanders and cutting tools generate dust and particles that damage the lungs and respiratory system.

- Some materials like resin or adhesive are made with chemicals and the vapors emitted may cause serious damage if the operator is exposed for long periods of time.

## To prevent inhaling particles

- Always wear a face mask or breathing device when operating these types of tools.
- Always work in a clean, well ventilated area.



## Risk of electric shock



**⚠ WARNING** • Pneumatic tools do not have electric insulation. If during the operation, the tool makes contact with a source of electricity, the energy will be conducted to the operator causing a fatal electrocution.

## To prevent electric shock

- Never use pneumatic tools to work energized electric wiring.
- Before operating the tool find the possible hidden wiring in the work zone to prevent making contact.
- Avoid contact with grounded surfaces like pipes, radiators or refrigerators. The risk of electrocution increases if the operator's body gets grounded.

## Risk of damaging the tool



**⚠ WARNING** • Pneumatic tools forced beyond the capacity and lacking of adequate lubrication or used to loosen rusted nuts (with impact guns) will get damaged and make the Warranty void.

## To prevent damaging the tool

- Keep the tool duly lubricated.
- Do not force the tool.
- Apply "loose it all" liquid to rusted nuts or lugs before trying to loosen with the tool (impact gun).

### Risk of injuries



**⚠ WARNING** • Damaged hoses may burst and cause serious injuries or deafness.

### To prevent injuries

• Pneumatic tools connected to the compressed air source, if operated by untrained staff or underage people, will cause severe injuries.

- Do not abuse the hose or the connectors.
- Keep the hose away from sharp or abrasive edges.
- Unplug the hose when setting up accessories like grinding discs or bits.
- Never use the hose to carry the tool.
- Never pull the hose to unplug it.
- Do not expose the hose to heat, oil or solvents.
- Before operating the tool, verify the hoses are not damaged.

• Unplug the air hose when the tool is not in use. Store the tool in a safe place away from children or untrained people. Keep children and untrained people away from the work area.

• The compressed air used in pneumatic equipment may be dangerous. Objects like vices, burrs, splinters, dust and other residues may be impelled by the high-speed air flow towards the operator or other people in the work area.

- Keep the work area clean, tidy and with good lighting.
- Remove any wrench or plier from the tool before operating.

• Using inflation nozzles to clean or torch blowing may cause severe injuries.

- Do not use inflation nozzles to clean or to torch blowing.

• Tools and accessories not suitable, damaged or low quality like grinding discs, chisels, contacts, drills, brad nailer, staplers, etc., may shoot out during the operation and project particles causing severe injuries.

- Use only parts, vices and accessories recommended by **TRUPER**.

• Brackets may get lose and be projected causing severe injuries or damage to property.

- Double check all connections are correctly installed.

• Tools that accidentally start may cause severe injuries.

- Never carry the tool by the trigger.
- Disconnect the air hose out from the tool when not in use.
- Never leave the tool unattended when connected to the air outlet.

• Tools and accessories with no maintenance may cause severe injuries.

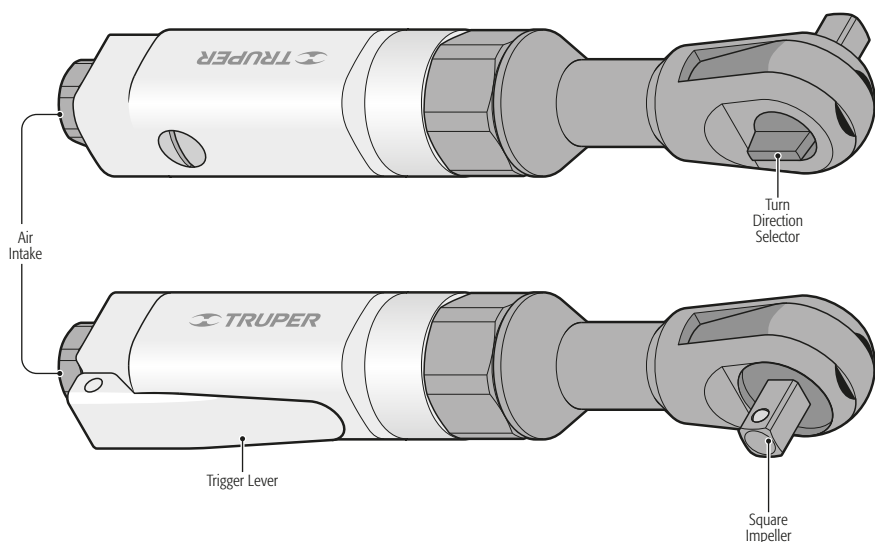
- Keep the tool handle clean and dry, free of oil or grease.
- Keep tools clean. A meticulously cleaned and oiled tool delivers a more effective performance and is easier to control.
- Any type of repair can only be carried out in a **TRUPER** Authorized Service Center.

• Tools using accessories without **TRUPER** certification may cause severe injuries.

- Use always accessories matching the tool speed.
- Use only **TRUPER** certified accessories.

• Damaged or banged tools may cause severe injuries.

- Do not use damaged or banged tools.

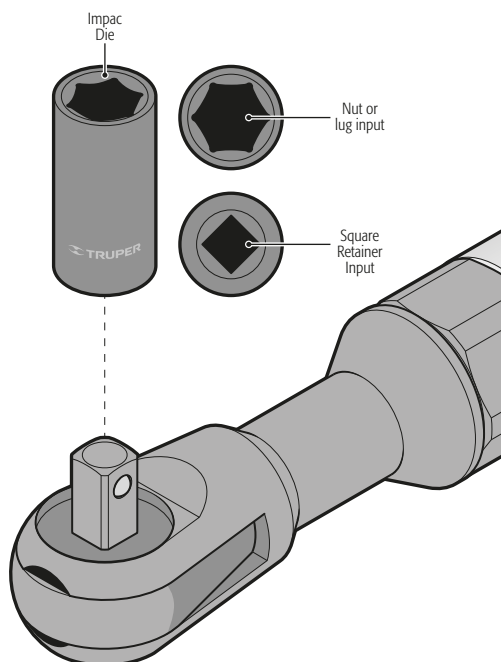


## Assembly

### Die set up

- Disconnect the tool from the air intake before replacing dies.
- Select the die needed and set it in the square impeller.
- Use always impact dies for this tool (not included). Do not use dies for hand tools. See the **TRUPER** catalog to learn about our accessory range.
- Use 3/8" dies for square impellers.
- Adapters for a different size of die are not recommended. Use when strictly necessary.
- If the die has holes, always use rubber rings and steel points when setting into the square impeller.

**⚠ WARNING** • When a die is not secured and adjusted as indicated, it can shoot out and injure the operator.



### Air inlet connection

- Add two or three drops lubricant with no detergent (A) to the air inlet (B) before each use.
- Screw the fast connector (C, not included) to the air inlet.
- Connect the air hose with a fast couple (D, not included) to the fast adaptor.

### Rotation direction

- The rotation direction relies in the direction towards the selector turns (F).
- To tighten one nut or lug, turn the selector to the right to make the die turn in a clockwise direction, to loosen, turn the selector to the left so that the die turns in a counter clockwise direction.
- The torque value may vary depending of the size of the air compressor and the amount of square feet (CFM) air it delivers.

### Turning ON

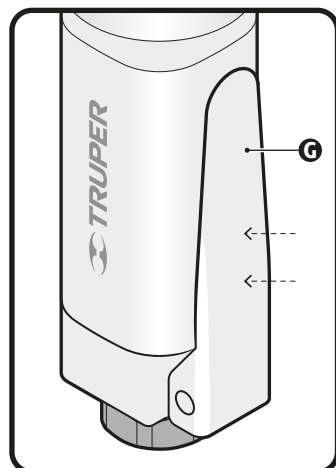
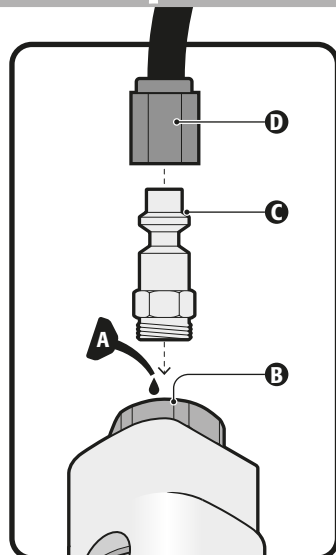
- Turn on the air compressor until is full.
- Regulate output pressure of the air compressor to 90 PSI

**⚠ WARNING** The tool operates at this pressure level. if operated at higher levels, the useful life of the tool will decrease.

- Allow some air to flow through the hose and the couple to verify both are clean before connecting to the tool.
- Determine the right rotation direction.
- Press the action trigger (G) to start the die.
- Stop pressuring the action trigger to stop the die.

### Operation

- Set the die in the nut or lug to tighten or loosen.
- Before operating the tool make sure there is enough space behind the tool to prevent trapping your hand. The tool travels away from the nut / screw when it is loosened or tightened.
- Do not try to make contact with the nut or lug when the die is moving. Do not press the trigger unless the nut or lug is duly inside the die.
- Apply firm and constant pressure but not forcing the tool. Otherwise, it gets damaged.



## Lubrication

• Pneumatic tools need to constantly be lubricated during its useful life and while operating. Compressed air needed in tool to run contain humidity which can rust the motor and bearings.

To prevent this possibility, is necessary to constantly administer through a **TRUPER** brand **UNI-LL-1/4** Centralized Filter-Oil Feeder System installed between the air compressor and the tool.

**⚠ WARNING** • Excessive oil in the motor is immediately expelled through the oil exhaust. Keep the exhaust always free of any obstruction and never point at people or objects.

- If not using the tool long periods of time, it shall be lubricated carefully.
- After 60 hours' operation, the tool mechanism needs some grease. Grease in excess main diminish power.

## Service

• Service to the tools shall be carried out every 3 months only in a **TRUPER** Authorized Service Center. Service and maintenance carried out by non-certified people may result dangerous and could cause personal injuries and also makes the Warranty void.

• Any malfunctioning in the tool caused by lack of the recommended dose lubrication, non-complying with these instructions or due to repairs carried out by staff not recommended by **TRUPER** will not be covered in this Warranty. We reserve the right to carry out technical improvements unannounced.

# Troubleshooting

## Problem

## Possible cause

## Solution

The tool runs too slowly or is not running.

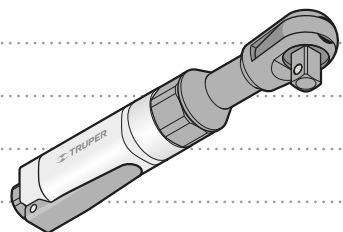
- Sand or gum in the tool.
- The tool has no oil.
- Low air pressure.
- The air hose is leaking.
- Pressure drop.
- Worn rotor blade.
- Humidity escapes through the tool exhaust.

- Drain the tool using pneumatic tools oil or gum solvent.
- Lubricate the tool following the lubrication instructions.
- Adjust the compressor gauge to the maximum pressure (90 PSI).
- Tighten and seal the joints in the hose if there are escape points. Use sealing tape.
- Confirm the hose has the right measure. Long hoses or tools using large volumes of air may need a hose with an inner diameter of 3/8" or higher, depending on the total length of the hoses. Do not use many hoses connected among each other if the hoses have a fast mount accessory. This causes the additional pressure drops and reduce the tool power.
- Connect hoses in a direct manner.
- Take the tool to a **TRUPER** Authorized Service Center.
- Water in the tank (See the air compressor instructions). Oil the tool and let it run until no more water escapes. Oil the tool again and leave it running 1 to 2 seconds.

The tool rotor turns without auctioning the trigger

- The "O"-ring in the inlet is broken.
- Replace the broken "O"-ring.

If the problems persist despite performing the recommended corrective actions,  
Contact an **TRUPER** authorized service center



In the event of any problem contacting a TRUPER authorized 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 800 018-7873 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

**BAJA CALIFORNIA SUR** **FIX FERRETERÍAS**  
FELIPE ÁNGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO  
NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S.  
TEL.: 133 132 1115

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

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TAPACHULA, CHIS. TEL.: 962 118 4083

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CHIHUAHUA, CHIH. TEL.: 614 434 0052

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JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257  
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CELAYA, GTO. TEL.: 461 617 7578 / 79 / 80 / 88

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CHILPANCIÑO, GRO. TEL.: 747 478 5793

**HIDALGO** **FERREPRECIOS S.A. DE C.V.**  
LIBERTAD ORIENTE #304 LOCAL 50, INTERIOR DE PASAJE  
ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO,  
HGO. TEL.: 775 753 6615 / 775 753 6616

**JALISCO** **SUCURSAL GUADALAJARA**  
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VALLE, C.P.: 45655, TLAJOMULCO DE ZUÑIGA, JAL.  
TEL.: 33 3606 5285 AL 90

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EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA,  
MICH. TEL.: 443 334 6858

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TEL.: 735 352 8931

**NAYARIT** **HERRAMIENTAS DE TEPIC**  
MAZATLAN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY.  
TEL.: 311 258 0540

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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**  
AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300,  
TUXTEPEC, OAX. TEL.: 287 106 3092

**PUEBLA** **SUCURSAL PUEBLA**  
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C.P. 72710, CUAUHTLACINGO, PUE.  
TEL.: 222 282 8282 / 84 / 85 / 86

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TEL.: 644 413 2392

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CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL,  
2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB.  
TEL.: 993 353 7244

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TAMS. TEL.: 899 926 7552

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C.P. 90970, SAN PABLO DEL MONTE, TLAX.  
TEL.: 222 271 7502

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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 MULSA,  
MPIO. UMAN, C.P. 97390, MÉRIDA, YUC.  
TEL.: 999 912 2451

Code	Model	Brand
16888	TPN-886-2	TRUPER

**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:

