

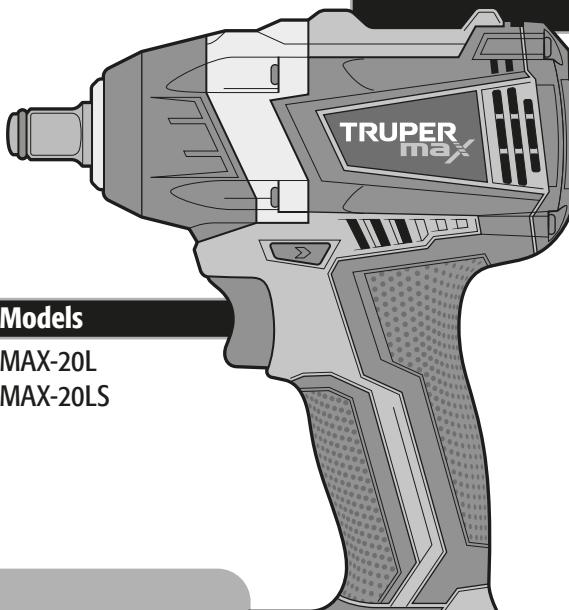
ENGLISH  
ESPAÑOL

TRUPER®  
max

Manual

# Cordless Impact Wrench

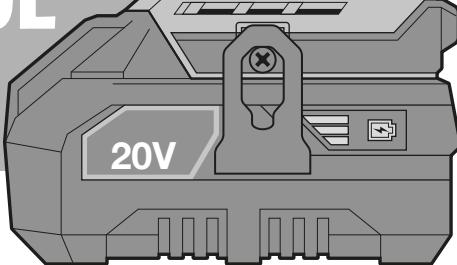
20 V == 1/2"  
Drive



Applies for:

Codes	Models
101403	MAX-20L
101407	MAX-20LS

## MAX-20L



Read this manual thoroughly  
before using the tool.



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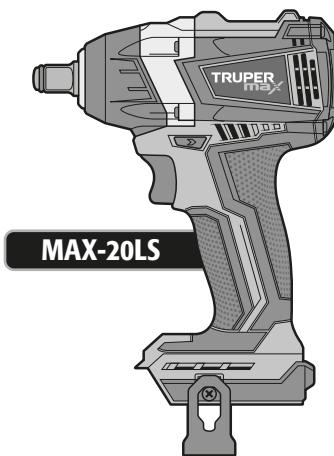
**CAUTION**

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.

Cordless Impact Wrench



## MAX-20L

## MAX-20LS

Code	•	101403	101407
Description	•	Cordless Impact Wrench (with accessories) / Cordless Impact Wrench	
Drive	•	1/2" keyless	
Voltage	•	20 V ==	
Strokes per minute	•	0 - 1 800 RPM 0 - 2 100 RPM 0 - 2 700 RPM	Speed per minute • 0 - 2 520 BPM 0 - 2 940 BPM 0 - 3 780 BPM
Rotation	•	Forward - Reverse	
Torque	•	162 lb-ft 220 Nm / 184 lb-ft 250 Nm / 258 lb-ft	350 Nm
Screw diameter	•	M8 - M16	
IP Grade	•	IP20	
Battery	•	Ion-Lithium 20 V == 4 Ah	Charging time: 80 minutes approximately.
Charger	•	Input: Voltage: 127 V ~ Frequency: 60 Hz Current: 1.1 A	Output: 21.5 V == 3.5 A

Power Cord of the charger. Grips used in this product: Type "Y".

Tool Build Quality: Class III.

Charger tool build quality: Reinforced insulation.

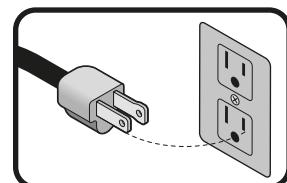
**WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a  TRUPER® Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not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

Amperes 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	3 (one grounded)	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 especially 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.

**General power tool  
safety warnings**

**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.

**Battery tool Use and Care**

**Recharge only with the charger specified by  TRUPER.**

A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

**Use power tools only with specifically designated battery packs.**

Use of any other battery packs may create a risk of injury and fire.

**When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.**

Shorting the battery terminals together may cause burns or a fire.

**Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.**

Liquid ejected from the battery may cause irritation or burns.

**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.

# Safety warnings for Cordless Impact Wrench

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## Battery and Charger

**DANGER** • Use only Truper Max chargers to charge the battery. Using a different charger may cause fire or injury hazard.

**DANGER** • Use only batteries specifically designed for the tool. Different batteries could generate risk of injury or fire.

• Connect the charger only to an alternating current (AC) supply.

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

• When charging, obey the "+/-" polarity.

• Never recharge a leaking battery or that is visibly damaged.

• Do not use batteries or a charger for purposes different than it was designed for.

• Do not modify the battery contacts or the chargers.

• Never expose the batteries to higher than 212 °F temperatures or direct sun light.

**DANGER** • Never expose the batteries to fire or impact. They could explode.

**CAUTION** • Batteries shall be kept away from metallic objects like clips, coins, keys, nails, screws or other type of object making contact with the terminals. It would cause a short circuit and burns or fire.

**CAUTION** • Under extreme conditions the battery liquid could spill out. Avoid any contact. If an accidental contact happens clean with enough water. If the battery liquid comes into contact with your eyes, clean with enough water and immediately go see the doctor. Liquid expelled from the batteries could cause irritation or burns.

**CAUTION** • To maximize battery life, fully discharge the battery at least once a month. Do not leave the battery uncharged for more than three months. Always charge the battery to its maximum capacity. Before using the tool for the first time, charge the battery for a minimum of 1 hour 20 minutes.

• Avoid stopping constantly while screwing, to avoid damage to the battery.

## Choose the right accessory

**CAUTION** • Choose the appropriate socket for the material to be worked, this reduces the risk of serious injuries and speeds up the work.

• Do not attempt to use dice that exceed the capacity of the box.

• Only use impact sockets.

## Before operating the tool

• Take your time to assess the job to be done and double check you are paying attention to the necessary caution advices before starting to drill.

• Adjust correctly the accessory.

**DANGER** • Verify the switch is in the OFF position before inserting the battery. Otherwise it will start working unexpectedly, causing severe injuries.

Use the auxiliary handles, it supplied with the tool. Loosing control may cause personal injuries.

## When operating the impact wrench

**CAUTION** • This tool is designed to work with dies. IT'S NOT A DRILL.

• This is a tool for light work, it should not be used to remove or place screws that require high torque.

• Do not attempt to modify the tool or its accessories in any way.

• Turn on the impact wrench after placing the die.

• Do not use too much force.

• Do not use this tool with one hand.

• After each use, remove the dies and extensions and store them well

**WARNING** Danger of suffocation! Children can swallow small pieces and suffocate. Keep children away from small pieces.



**Hold the power tool by the insulated grip surfaces when performing an operation where the fastener can make contact with hidden wires or its own power cord.**

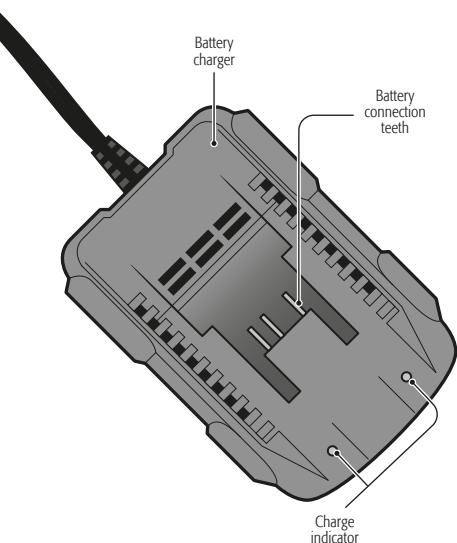
Fasteners that come into contact with an energized cable can convert the metal parts of the power tool into live parts and as a result, they can cause an electric shock to the operator.

• Wear anti-dust mask and dust extraction equipment if necessary. Remember that working with materials like asbestos, leaded paint, additives, some types of wood, metals or minerals are highly toxic.

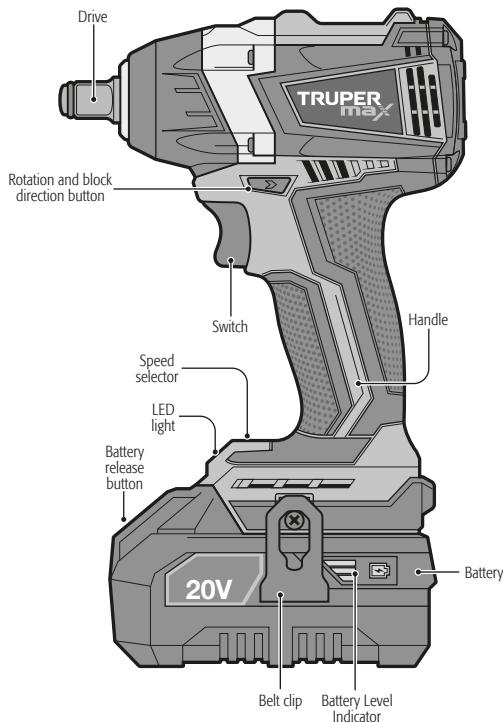


• Wear safety eyeglasses.





**NOTE** In model MAX-20LS, battery and charger are sold separately.



## Preparation

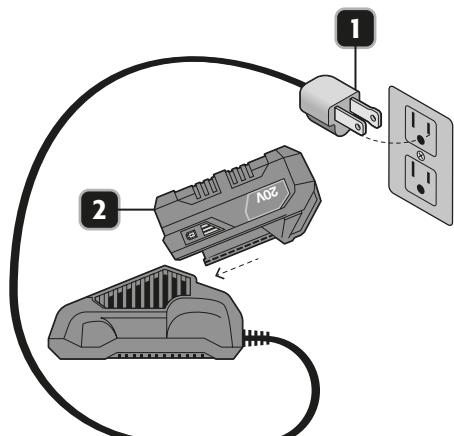
### Loading the Battery

1. Plug in the charger in a 127 V~ (The green light of the charging indicator turns on) power outlet.
2. Insert the battery into the charger sliding it as shown in the figure. The green light will turn off and the red light should come on.

- When the battery is completely charged, the green light will be on and the red light will be off.
- Disconnect the charger from the power once the charge is completed.

### Battery failures

- If the red light flashes, it is a sign that the battery has a delay caused by the heat; wait until the battery temperature is in the proper range to be able to charge.
- The red light remains on exceeding the recommended charging time or if the red and green light flash alternately it is a sign that the battery is defective; you must replace it or use a  TRUPER® Authorized Service Center.



## Important load considerations

- Longer life and better performance can be obtained if the battery unit is charged in room temperature between 5°C and 45°C. Allow a hot battery pack to cool before charging.
- The charger and battery unit may heat up slightly during the charging process. This is normal and does not represent any problem. To make it easier to cool the battery unit after use, avoid placing the charger or battery unit in a warm place, such as a metal shed or trailer without thermal insulation.

- The battery unit should be recharged when it is not able to produce enough power for jobs that were easily performed before. DO NOT CONTINUE to use it under these circumstances. Follow the charging procedure.
- The best storage place is one that is cool and dry, away from direct sunlight and excess heat or cold.
- For optimal results during extended storage times, it is recommended to store the fully charged battery unit in a cool, dry place outside the charger.

## Tool/battery protection system

**CAUTION** • The tool is equipped with a system that automatically stops the tool to prolong both its useful life and that of the batteries, this happens in the following cases:

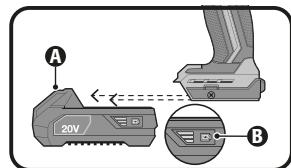
**Overload.** When the tool is forced, the battery consumes abnormally high current levels. Suspend overexertion work and turn the tool back on.

**Overheating.** Let the tool and battery cool before turning it back on.

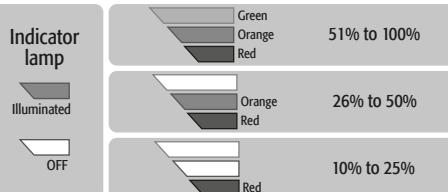
**Over-discharge.** The battery level is low. In this case, remove the battery from the tool and charge it.

## Batteries

- To install the battery in the tool handle, align the battery unit with the rails on the inside of the tool handle and slide it into the handle until the battery unit is firmly inserted into the tool; check that it does not come off by itself.
- To remove the battery from the tool, press the release button (A) and firmly pull the battery out of the tool handle.
- To make sure the battery is charged, press the indicator button (B). The color of the light indicates the charge level.



## Remaining battery capacity



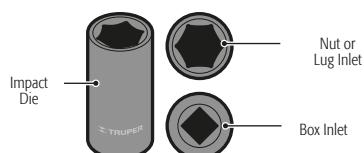
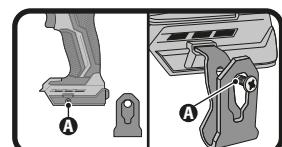
**NOTE:** Depending on the conditions of use and ambient temperature, the indication may differ slightly from the actual capacity.

## Die Set Up

- Set the direction button in the locked position (center).
- Take the die and push firmly onto the frame. The retaining ring compresses to allow the accessory to slide on top. Once the accessory is installed, the retaining ring applies pressure which helps allow the accessory to be retained.

## Belt Clip Assembly

- Attach the clip on the tool's accessory-designated side.
- Use the included screw (A) to adjust the clip.
- NOTE:** If the tool already has the screw in position, just take it out before securing the clip.
- If you choose not to use the belt clip, you can detach it from the tool by loosening the screw that keeps it in position.

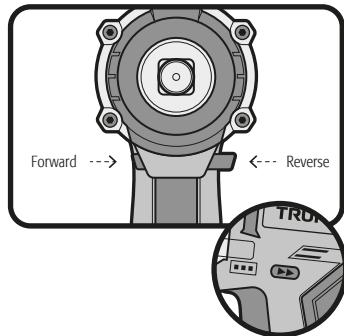


## Direction of rotation

- To rotate forward release the trigger and press the direction button on the side where marks point towards the chuck.
- To reverse the turn, press it on the other side.
- The hammer drill will get blocked if the button sits in the middle.

**⚠ CAUTION** • The first time you turn on the hammer drill and after reversing rotation you might hear a click. This is normal and does not represent a problem.

**⚠ CAUTION** • To prevent damaging the tool, never reverse the rotation direction while the hammer drill is running.



## Speed selection

Your tool is equipped with a speed selector that allows you to select a speed and torque according to the application:

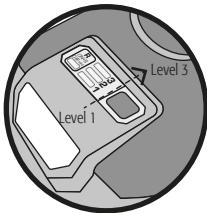
- Press the switch until the speed selector LED light turns on
- Press the speed selector button.
- The green LED light will indicate the selected level
- Press the button until the desired level is reached.

### Screwing

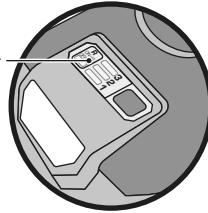
Speed (RPM) / Max. Torque (lb-ft)	
Level 3	0 - 2 700 RPM / 258 lb-ft - 350 Nm
Level 2	0 - 2 100 RPM / 184 lb-ft - 250 Nm
Level 1	0 - 1 800 RPM / 162 lb-ft - 220 Nm

### Unscrewing

Speed (RPM) / Máx. Torque (lb-ft)	
Level 2 LED light stays off	0 - 2 700 (RPM) / 258 lb-ft - 350 Nm
Level 1 LED light stays on	Max. speed between 1 - 8 s Low speed at constant speed of 140 r/min (RPM)



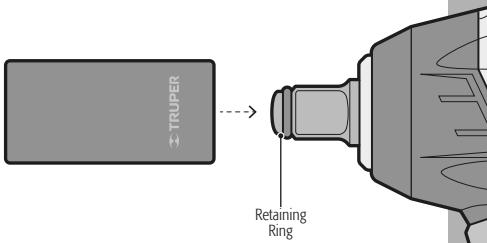
Screwdriver mode indicator



## Removing an accessory

- To remove an accessory, grasp it and pull firmly.
- Always use impact dies with this tool. Do not use dies for hand tools. Consult the **TRUPER** catalog to learn about our accessory's variety.
- Use 1/2" dies for box.
- Using adaptors for other sizes are not recommended. Use only if strictly necessary.
- If the die has orifices always use rubber rings and steel tips when setting it into the box impeller.
- When the box is with a retaining ring, verify it is in good repair. If damaged, replace immediately.

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



## Turn On and operation control

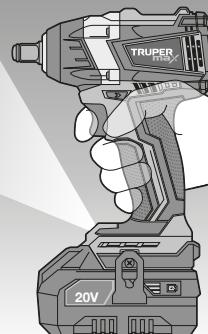
- Press the switch to start the operation. Release the switch to stop operation.
- The switch allows selecting the adequate speed for each job. The more you push the switch the fastest the hammer drill will run.

## Screwing - Unscrewing

Consider the following points as the tightening torque can be affected by each of them:

- Voltage: Low voltage from a nearly completely discharged battery or battery will reduce the tightening torque.
- Accessory size: Failure to use the correct accessory size will cause a reduction in tightening torque. - Bolt size: Larger diameter bolts generally require greater fastening torque. Locking torque will also vary according to length, grade and torque coefficient.
- Bolt: Make sure all threads are free of rust and other debris to allow for proper tightening torque.
- Material: The type of material and surface finish of the material will affect the tightening torque.
- Tightening time: Longer tightening time increases the tightening torque. Longer than recommended tightening time may put too much stress on the fasteners or cause them to roll or become damaged.

The LED light activates when the switch is pressed. When the switch is released, the light will remain illuminated for a maximum of 6 seconds.



Problem	Cause	Solution
The hammer drill loses efficiency.	• Low battery.	• Charge the battery.
The trigger cannot be pushed.	• The direction rotation button is in the blocking position.	• Move the direction button into the rotate or reverse position.
The trigger can be pushed but the hammer drill stops operations.	• Uncharged battery.	• Charge battery.
The battery leaks.	• Small leaking can be present in extreme temperatures or after heavy use. This is normal. • Intense leaking or very evident shows a damaged battery.	• Immediately clean the liquid from skin or clothing using water and soap. • Replace the battery immediately.
The battery is not charging and the charger light is not on.	• The battery is wrongly fit into the charger. • The charger is not correctly plugged into the power outlet.	• Insert correctly the battery to the charger. • Double-check the battery is correctly connected into the power outlet.
The hammer drill gets hot after long periods or work.	• This heating is normal. It absorbs the energy from the motor cogs and the electricity generated during the job.	• Allow the hammer drill to cool off for 5 minutes.
The battery gets hot while operating.	• This heating is normal. The energy absorbed from the battery makes this warning.	• Stop the drill around 5 minutes to allow the battery to cool off.
The battery gets hot while charging.	• This type of warming is normal. Results from the chemical reactions happening.	
The charger gets hot while charging.	• This type of warming is normal resulting from tension regulation.	

## Maintenance

### Cleaning and care

- Keep the air vents clean and free of obstructing debris to guarantee an adequate motor cooling.
- Regularly inspect all the assembly screws. Double check they are correctly tightened. In the event one screw is loose, tighten immediately.
- Use a clean and soft cloth to clean the tool. Never use alcohol or detergent. Disconnect the tool and remove the battery before cleaning.

### Service

- Servicing the tool shall be carried out only in a **TRUPER**® Authorized Service Center.
- Service and maintenance carried out by non - qualified people may result dangerous and could cause personal damage. It also makes the Warranty void.

## Environmental protection

Power tools and batteries should not be disposed off together with household trash. Please deliver this tool and the batteries to its adequate recycling in the authorized disposal sites. Verify the nearest recycling center in your community.

# 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](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	<b>DE TODO PARA LA CONSTRUCCIÓN</b> GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL: 449 994 0537	
BAJA CALIFORNIA	<b>SUCRASAL TIJUANA</b> AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL FLORIDO II, C.P. 22244, TIJUANA, B.C. TEL: 664 969 5100	
CALIFORNIA SUR	<b>FIX FERRETERÍAS</b> FELIPE ANGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL: 613 132 1115	
CAMPECHE	<b>TORNILLERÍA Y FERRETERÍA AAA</b> AV. ÁLVARO OBREGÓN #524, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL: 981 815 2808	
CHIAPAS	<b>FIX FERRETERÍAS</b> AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL: 962 118 4083	
CHIHUAHUA	<b>SUCRASAL CHIHUAHUA</b> AV. SILVESTRE TERRAZAS #12-111, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAHTEMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL: 614 434 0052	
MEXICO CITY	<b>FIX FERRETERÍAS</b> EL MONSTRUO DE CORREGIDORA, CORREGIDORA #35, COL. CENTRO, C.P. 06606, CUAHTEMOC, COMX. TEL: 55 5522 5031 / 5522 4861	
COAHUILA	<b>SUCRASAL TORREÓN</b> CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL: 871 209 68 23	
COLIMA	<b>BOMBAS Y MOTORES BYMTESA DE MANZANILLO</b> BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL: 314 332 1986 / 332 2013	
DURANGO	<b>TORNILLOS ÁGUILA, S.A. DE C.V.</b> MAZURIÓ #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO. TEL: 618 817 1946 / 618 818 2844	
ESTADO DE MÉXICO	<b>SUCRASAL CENTRO JILOTEPEC</b> PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257 TEL: 761 782 9101 EXT. 5728 Y 5102	
GUANAJUATO	<b>CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V.</b> AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAVAL, GTO. TEL: 461 671 7578 / 79 / 80 / 88	
GUERRERO	<b>CENTRO DE SERVICIO ECLIPSE</b> CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL: 747 478 5793	
HIDALGO	<b>FERREPRESIOS S.A. DE C.V.</b> LIBERTAD ORIENTE #504 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL: 775 753 6615 / 775 753 6616	
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SAN LUIS POTOSÍ	<b>FIX FERRETERÍAS</b> AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL: 444 822 4341	
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