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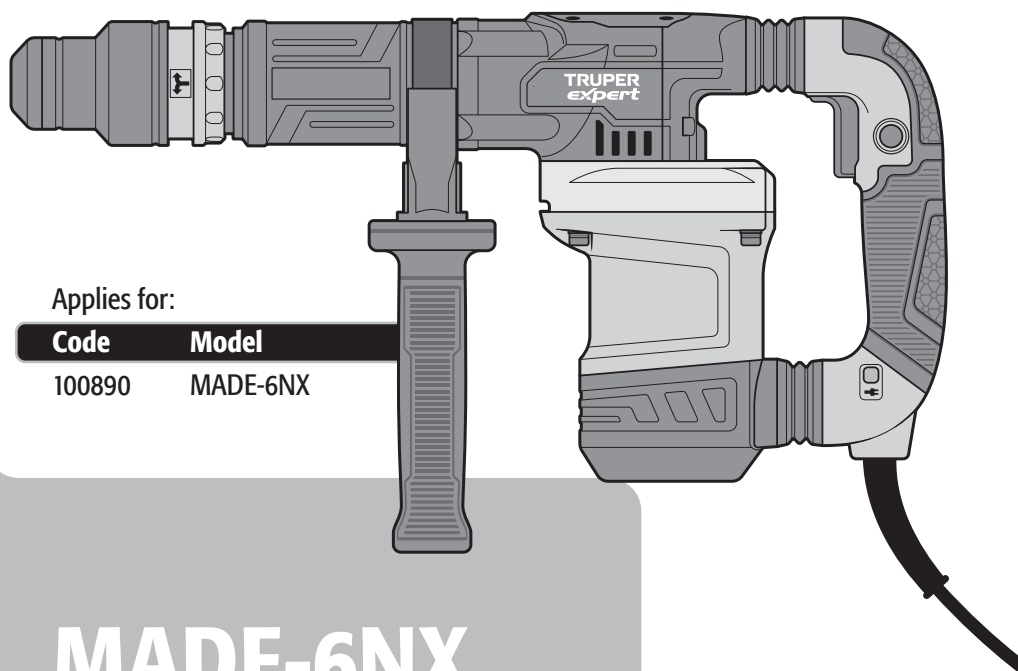
# TRUPER<sup>®</sup> *expert*

Manual

## SDS MAX Demolition hammer

**14 J**

Impact energy



Applies for:

Code	Model
100890	MADE-6NX

# MADE-6NX

**CAUTION**



Read this manual thoroughly  
before using the tool.



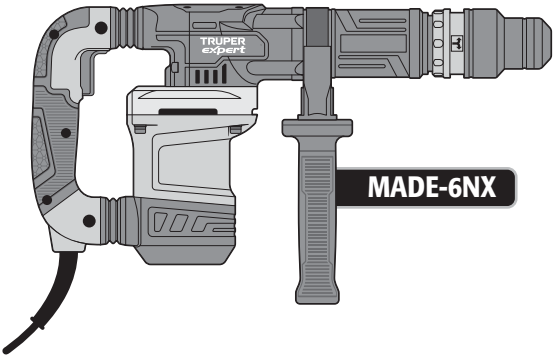
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 **CAUTION**

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.



# Technical data

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**MADE-6NX**

Code	•	100890
Description	•	SDS MAX Demolition hammer
Chuck	•	SDS max
Voltage	•	127 V~
Frequency	•	60 Hz
Current	•	10 A
Power	•	1 200 W
Impact energy	•	14 Joules
Weight	•	13 lbs
Number of impacts	•	Impact: 3 100 BPM
Work cycle	•	50 minutes work per 20 min rest. Maximum 6 hours daily
Conductors	•	16 AWG x 2C with an insulation temperature of 221 °F
Insulation	•	Class II
IP Grade	•	IP20

Power Cord Grips used is: Type "Y".  
Tool Build Quality: Reinforced insulation  
Thermal insulation on motor winding: Class E

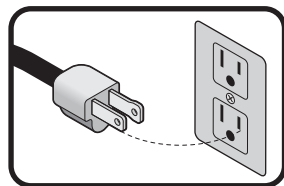
**⚠ WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not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

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



## Power requirements

**⚠ WARNING** Tools with double insulation and reinforced insulation are equipped with a polarized plug (one prong is wider than the other). This plug will only fit in the right way into a polarized outlet. If the plug cannot be introduced into the outlet, reverse the plug. If it still doesn't fit, call a qualified electrician to install for you a polarized outlet. Do not alter the plug in any way. Both insulation types eliminate the need of both a grounded third power cord with three prongs or a grounded power connection.



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

Ampere Capacity	Number of Conductors	Extension gauge	
		from 6' to 49'	higher than 49'
from 0 A and up to 10 A	3 (one grounded)	18 AWG(*)	16 AWG
from 10 A and up to 13 A		16 AWG	14 AWG
from 13 A and up to 15 A		14 AWG	12 AWG
from 15 A and up to 20 A		8 AWG	6 AWG

\* It is safe to use only if the extensions have a built-in artifact for over current protection.

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

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



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## General power tool safety warnings



**⚠ 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 losing 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 can 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.

# Safety warnings for the use of hammer drills

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## Choose the appropriate drill or attachment

- CAUTION** • The tool is designed to work with bits or accessories with SDS-max shanks. Choose the appropriate one for the material to be worked on, this reduces the risk of serious injury and speeds up the work.
- Do not attempt to use bits that exceed the capacity of the drill.
- Use well-sharpened and well-conditioned drill bits/accessories to optimize the work.

## Before operating the hammer drill

- Take your time to evaluate the work to be done and make sure you have followed all the necessary precautions before starting to drill.

**WARNING** • Fit the accessory correctly to the chuck, otherwise it can be thrown out at high speed and cause serious injury.

**DANGER** • Before hitting a wall, floor or ceiling, make sure there are no embedded objects, such as wires or electrical conduits or pipes.

**DANGER** • Make sure the switch is off (page 7 Start-up) before connecting the tool, otherwise it will start working unexpectedly, which can cause serious injury.

**CAUTION** • Turn off and disconnect the tool before installing or replacing an accessory.

**WARNING** • This electric tool produces an electromagnetic field during its operation that could interfere with medical implants. To reduce the risk of serious or fatal injury, it is recommended that people with medical implants consult their physician and the manufacturer of the implant before operating the tool.



## While operating the hammer drill

**CAUTION** • Hold the tool by its handle and by the auxiliary handle. Remember that loss of control can cause personal injury.

• **Hold the tool by its insulating surfaces, especially when performing work where the cutting portion of the drill may contact hidden wiring or the tool's own power cord.** Contact with a live wire also makes the metal parts of the tool live and can cause an electric shock to the operator.



• Do not subject the tool to excessive stress.

**CAUTION** • If the drill bit gets stuck in the workpiece, turn off the demolition hammer immediately. Then remove the drill bit from the workpiece. Do not attempt to remove jammed bits by turning the tool on and off.

• Do not put too much pressure on the tool to speed up the drilling. Otherwise, the drill bit will be damaged and the efficiency of the tool will decrease as well as its life span.

**WARNING** • The larger the chisel area, the greater the reactive force, which can lead to a loss of control of the tool. To avoid this possibility, hold the tool firmly with both hands and maintain a balanced position on both feet while drilling at 90°.

• Be careful and ready to relax the force as soon as the drill bit penetrates the material. Sudden movements can cause accidents.

**CAUTION** • Do not touch the chisel or drill holes immediately after drilling. Wait for them to cool down before handling them. Do not try to cool them with water or oil.

• Avoid placing the tool in a place with particles and/or dust immediately after use, these can be absorbed into the tool mechanism and thus damage it.

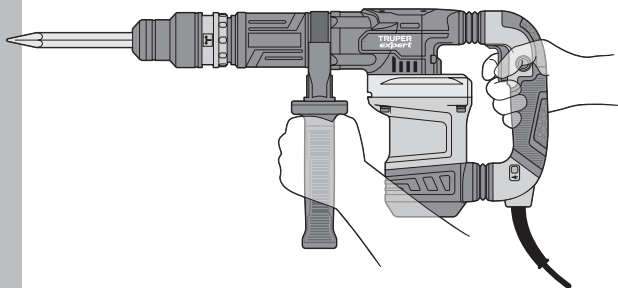
• Use headset protectors, when running services that make noise above 85 dB. Exposure to noise can cause hearing loss.

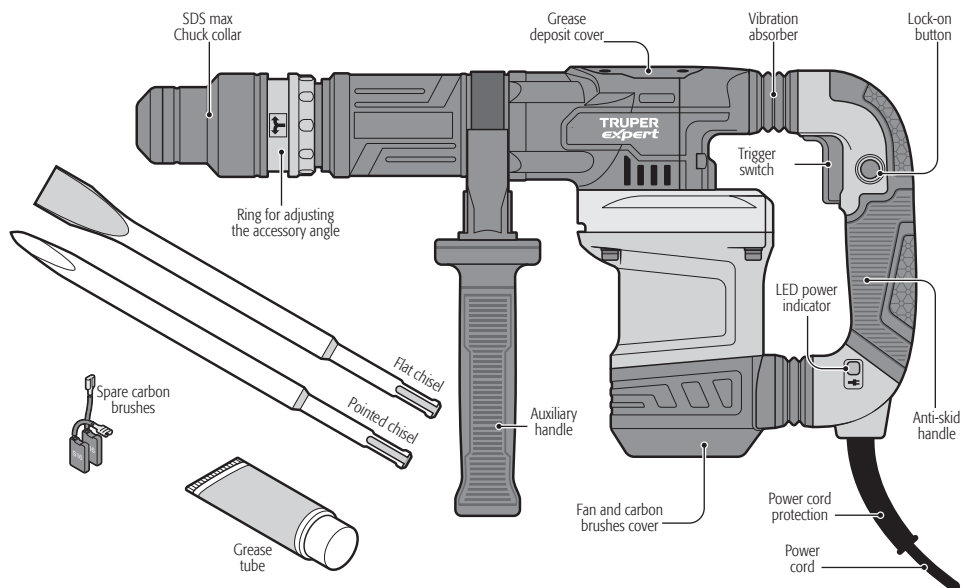
• Use a dust mask and dust extraction equipment if necessary. Remember that working with materials such as asbestos, lead paint, additives, some types of wood, metals, or minerals is highly toxic.

• Wear safety goggles.



Correct way to hold  
the hammer drill



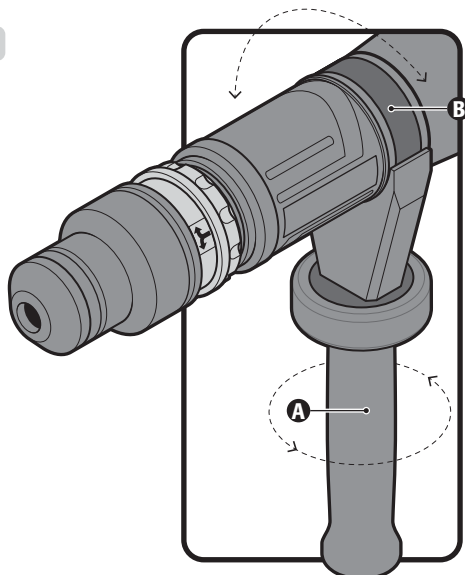


## Mounting and adjustments

### Auxiliary Handle

**CAUTION** Operate the power tool only with the auxiliary handle installed.

- The auxiliary handle can be rotated to any position for a secure, low-fatigue posture.
- Rotate the auxiliary handle grip (A) counterclockwise to loosen the mount (B) and swing the auxiliary handle to the desired position.
- Then, retighten the auxiliary handle grip by turning clockwise.
- Make sure the mount band is positioned in the proper section of the housing.




# Mounting and adjustments

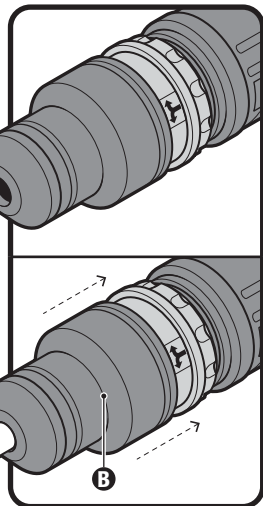
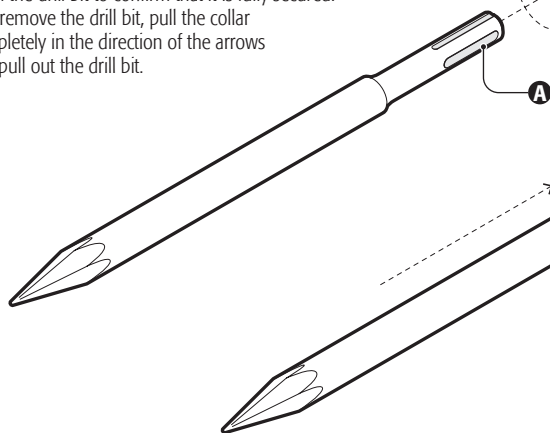
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## Mounting accessories

**⚠ CAUTION** To prevent accidents, confirm that the switch is turned off and disconnect the plug from the power supply.

**⚠ WARNING** Always wear gloves when changing accessories.  They can become extremely hot during operation.

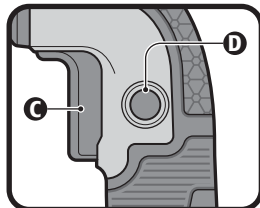
- Clean the drill bit shank (A) and apply grease before inserting it.
- Insert the accessory into the chuck. Turn the accessory slowly to feel for the point where it engages. At this point, pull the collar (B) as indicated by the arrows push the bit all the way in.
- Pull the drill bit to confirm that it is fully secured.
- To remove the drill bit, pull the collar completely in the direction of the arrows and pull out the drill bit.



## Start up

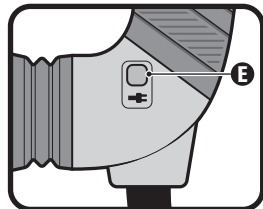
### ON and OFF

- Intermittent operation:  
Press the switch (C) to start the hammer running.  
To interrupt its use, release the switch.
- Continuous operation:  
Press the switch (C) and lock it, pressing the Lock-on button (D).  
To interrupt operation, press and then release the switch.



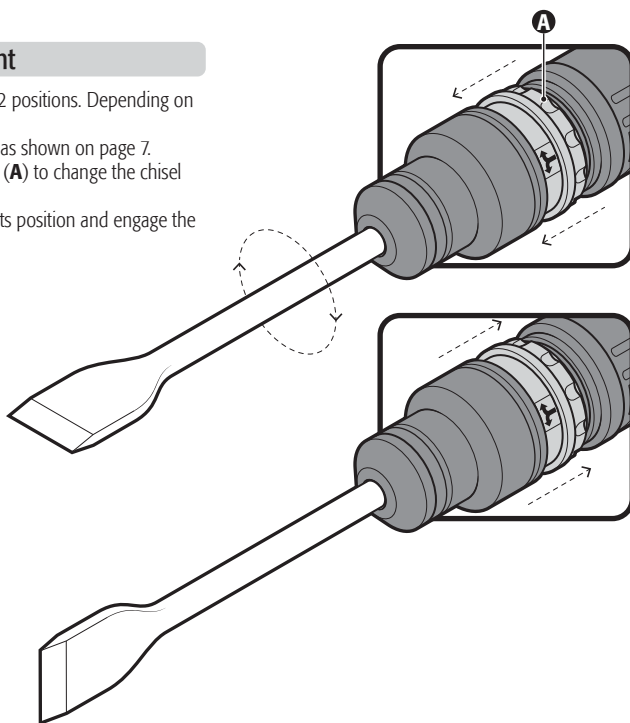
### LED indicator (E)

- The LED indicator lights up when the tool is switched on. If the LED indicator does not light up, the power cord or controller may be defective.
- The indicator starts flashing when the carbons have worn out, 8 hours later the machine will automatically switch off and cannot be switched on again until the carbons are replaced.



### Chisel angle adjustment

- The chisel can be adjusted in 12 positions. Depending on the job to be done.
- Insert the chisel into the chuck as shown on page 7.
- Push forward and turn the ring (A) to change the chisel to the desired position.
- Release the ring to return it to its position and engage the chisel.



### Additional Information

- SDS accessories require freedom to move within the chuck, which causes eccentricity when the tool is unloaded. However, the accessory automatically centers itself during operation, without affecting drilling accuracy.
- When new, the tool requires a 5-hour working time to reach maximum efficiency.

## Cleaning and Care

- Clean the machine with a soft cloth, dampened with soap and water, preferably after each use.
- Always keep the vents clean and free of obstructions to ensure proper cooling of the motor.
- Regularly inspect all mounting screws and make sure they are tightened properly. If any of the screws are loose, tighten them immediately.

## Carbon Brush Replacement

- The carbons should be checked periodically, and always be replaced by a TRUPER Authorized Service Center when they have worn out.
- After they have been replaced, ask to inspect if the new carbons can move freely in the carbon holder and request that the tool be turned on for 5 minutes to match the contact of the carbons and commutator.
- Only use TRUPER original replacement carbons, specifically designed with the hardness and electrical resistance for each type of motor. Out of specification carbons can damage the motor.
- When changing the carbon brushes, always replace both carbons.
- In case you have to replace the carbons yourself, please follow this order:
  1. Loosen the two fixing screws and remove the fan cover..
  2. Remove the coil spring and the carbons.
  3. After replacing the carbons, install the coil spring and fan cover, tightening the set screws securely.

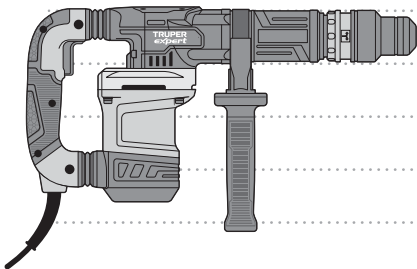
## Lubrication

- The hammer drill crankshaft is lubricated with low viscosity grease so that it can be used for a long period of time without the need to replace the grease.
- Contact a TRUPER Authorized Service Center to replace the grease in case of leaks.

**⚠ WARNING** Applying non recommended grease will cause the machine to clog, reducing its service life.

## Service

- Service to the tools shall only be carried out in a TRUPER Authorized Service center. Service and maintenance carried out by unqualified persons can be dangerous and may result in personal injury and invalidate the product warranty.



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.

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Code	Model	Brand
100890	MADE-6NX	<b>TRUPER</b> <i>expert</i>

Warranty. Duration: 5 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, only present the product 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. The costs of transportation of the product that derive from its fulfillment of its service network are included. TRUPER will not require any proof of purchase to make the warranty effective. 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:

