

Manual

## Hammer drill

**0.73 Hp**

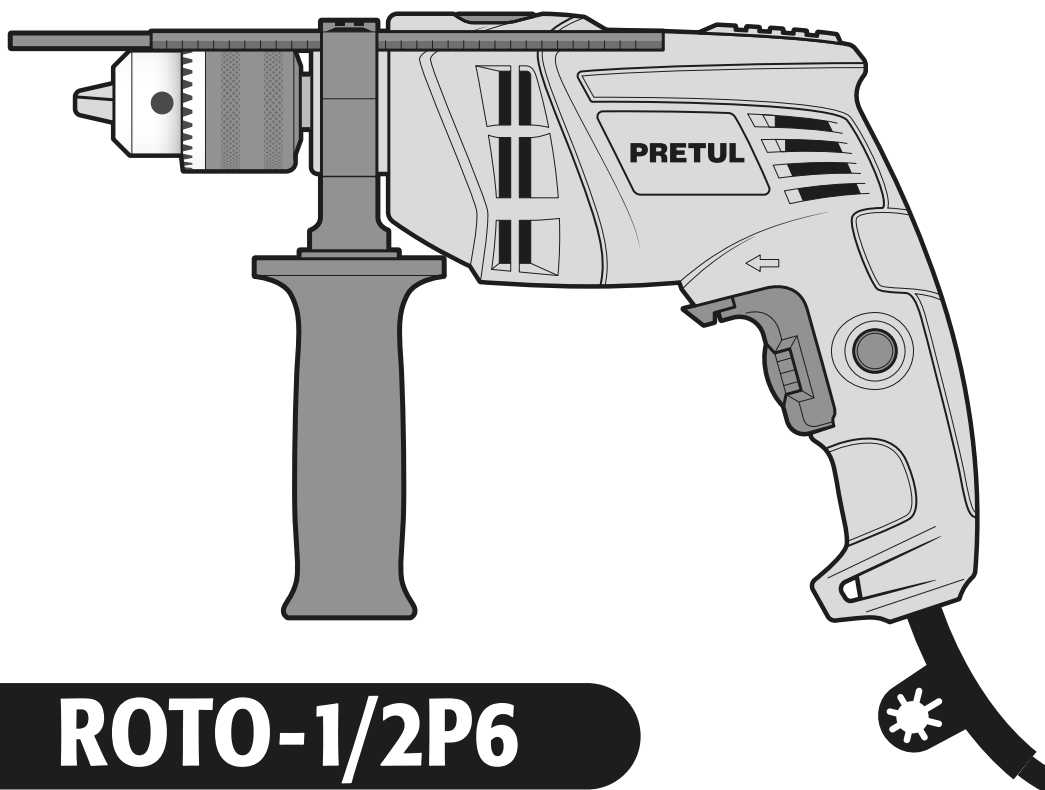
Power

**1/2"**

Chuck

Applies for:

Code	Model
28112	ROTO-1/2P6





# ROTO-1/2P6



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.

## Use and care recommendations

 **TO EXTEND THE LIFE OF YOUR TOOL.**  
Clean with compressed air after each use.

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

 Do not change the drive selectors while the chuck is rotating.

 **FULFILL THE WORKING CYCLES.**  
20 min of work and 10 min of rest. Daily maximum 1 hour 30 minutes



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

## ROTO-1/2P6

Code	28112		
Description	Hammer drill		
Voltage	127 V~		
Frequency	60 Hz		
Current	4.2 A		
Power	0.73 Hp		
Functions	Drill / Hammer drill		
Speed	0 - 3 000 RPM	Strokes per minute	0 - 48 000 BPM
Chuck	1/2"		
Drilling Capacity	Wood 1"   Concrete 1/2"   Metal 1/2"		
Conductors	18 AWG x 2C with insulating temperature of 221 °F		
Insulation	Class II	IP Grade	IP20
Duty Cycle	20 minutes work per 10 minutes idle. Maximum 1 hour 30 minutes per day.		

Power Cord Grips used in this product: Type Y.  
Tool Build Quality: Reinforced insulation.  
Thermal insulation on motor winding: Class E

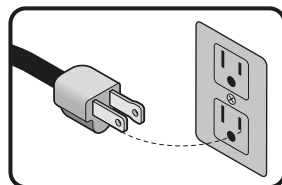
**⚠ WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a **TRUPER** Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. 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 5.91' to 49.2'	higher than 49.2'
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 **6 VOLTECK** grounded extension cable labeled "For Outdoors Use". These extensions are especially designed for operating outdoors and reduce the risk of electric shock.



# PRETUL

## ⚠ 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 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).

# Safety warnings for drills and hammer drills

# PRETUL

## Choose the right bit


**⚠ CAUTION** • Choose the right bit for the work piece. It reduces the risk of severe injury and makes the job easier.

- To drill concrete or stone, use bits specifically designed for concrete.
- To work on metal or plastic, use bits suitable for metal. Sizes encompass a minimum of 0.05" and up to the chuck maximum capacity 1/2".
- On wood, use regular bits suitable for wood. In any case, to drill 0.25" or smaller orifices, use bits designed to drill on metal.
- Do not try using bits exceeding the chuck capacity.

## Before using the hammer drill

• Before starting to work with the drill, take a few minutes to assess the job to be done and double-check all the safety caution rules.

**⚠ WARNING** • Fit the bit into the chuck. Remove the chuck wrench before drilling. Failure to follow this instruction shoots out the chuck wrench with great speed and cause severe injury.


**⚠ DANGER** • Before drilling walls, floors or ceiling, look for any built-in objects, like power cables and conductors or pipes. 

**⚠ DANGER** • Verify the switch is in the OFF position (See page 7 Operation and control) before connecting the drill. Otherwise, it can unexpectedly start operating and could cause severe injuries.

**⚠ CAUTION** • Turn off and disconnect the tool before reversing the chuck's direction as well as fitting or replacing bits.

## While operating the hammer drill

• Use the auxiliary handles, if supplied with the tool. Loss of control may result in personal injury.

• Hold the tool by the isolated parts. The cutting part of bit could come into contact with hidden wiring or with its own power cord. Making contact with a power cord causes the tool metal parts get electrified and may result in electric shock to the user. 

• Do not force the tool to excessive workloads.

**⚠ CAUTION** • Turn off the hammer drill immediately if the bit gets stuck into the work piece. Then, remove the bit off the work piece. Do not try removing stuck bits turning on and off the tool.

• Do not apply too much force on the tool in order to accelerate the drilling procedure. The bit could get damaged and the tool would lose efficiency and useful life.

**⚠ WARNING** • A large diameter bit causes a higher reactive force leading to losing control over the tool. To avoid this possibility, firmly hold the tool with both hands and keep balanced footing. Drill at 90°

• Be prepared to relax the drilling force when the bit goes through the material. Sudden movements could break the bit or damage the hammer drill.

**⚠ CAUTION** • Do not touch the bit or the orifices immediately after drilling. Wait until they cool down to handle them. Do not try to cool them down using water or oil.

• Immediately after using do not set the tool where there are particles and / or dust. They can be absorbed into the tool mechanism and cause damage.

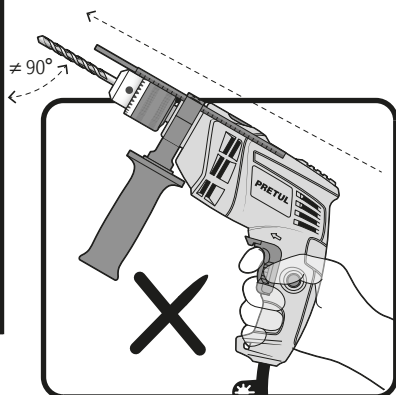
• Use earplugs when using the hammer drill.

Exposure to noise can cause hearing loss.

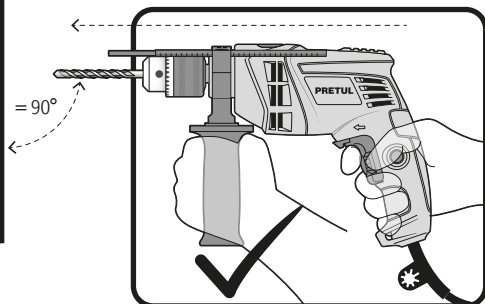
• Use dust mask and dust extractor if necessary.

Remember that materials such as asbestos, paint with lead, additives, some types of wood, metals or minerals are highly toxic.

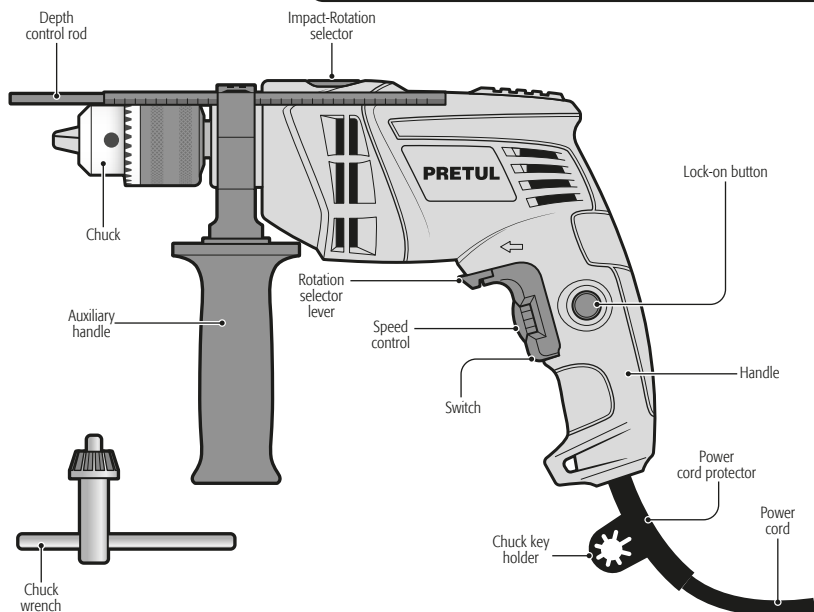
• Use safety glasses.



Wrong way to operate the hammer drill.



Right way to operate the hammer drill.

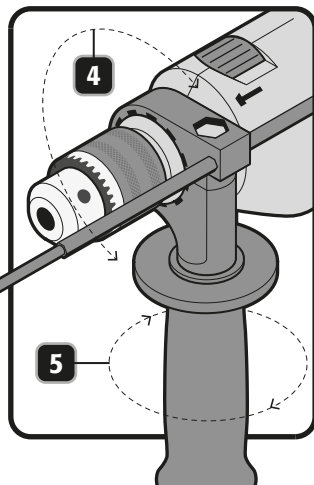
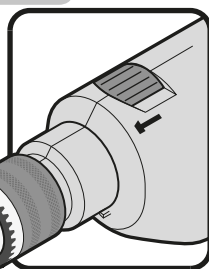
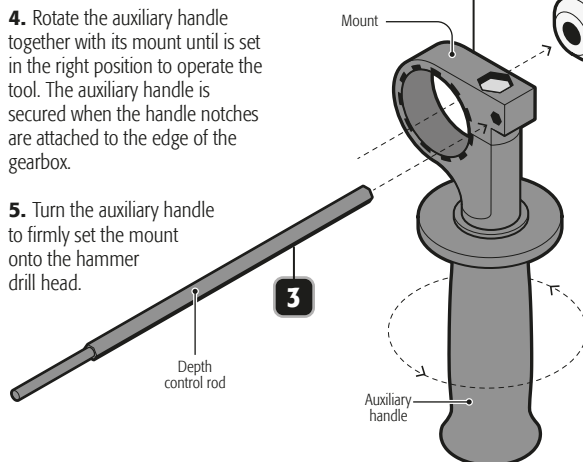


## Preparation

### Auxiliary Handle and Depth Control Rod Assembly

1. Turn the auxiliary handle clockwise to release it. The opening of the mount will pass freely over the chuck.
2. Insert the hammer drill head through the auxiliary handle mount.
3. Insert the depth control rod into the mount small orifice.
4. Rotate the auxiliary handle together with its mount until is set in the right position to operate the tool. The auxiliary handle is secured when the handle notches are attached to the edge of the gearbox.
5. Turn the auxiliary handle to firmly set the mount onto the hammer drill head.

#### Steps 1 & 2



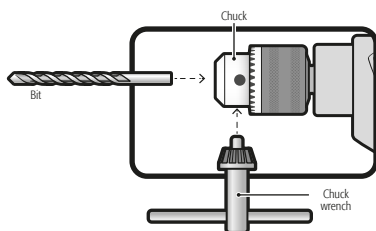
# Preparation

# PRETUL

## Bit fitting

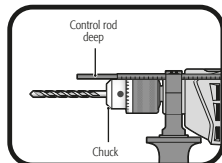
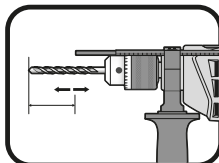
- Put the bit into the chuck until it stops. Fasten with the chuck wrench and tighten alternately the chuck into each of the orifices.

**⚠ WARNING** Clean the burrs and any other foreign objects of the drill and the broker, otherwise the drill cannot get tight and cause serious personal injury.



## Depth control rod adjustment

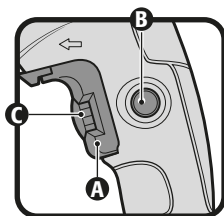
- Loosen the auxiliary handle (see page 6; auxiliary handle assembly), to allow free movement of the rod.
- Move the depth rod so that the distance between the end of the rod and the end of the drill bit equals the desired drilling depth.
- Tighten the auxiliary handle (see page 6; auxiliary handle assembly), to lock the rod in position.
- When drilling with the depth rod, stop when the end of the rod reaches the surface.



# Start up

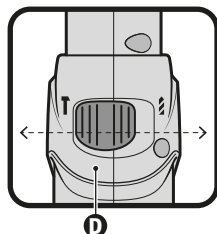
## Turn on and operation control

- Intermittent operation:**  
Connect the plug into the power inlet.  
Press the switch (A) to start the hammer drill.  
To stop, just release the switch.
- Continuous Operation:**  
Connect the plug into the power inlet.  
Press the switch (A) and block it pressing the Lock-on button (B).  
To stop, press and then, release the switch.



## Speed control

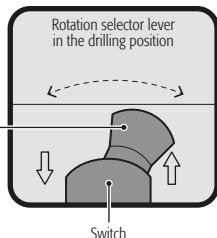
- The tool can run in different speeds. Select by adjusting speed control (C) in the switch.
- Turn speed control clockwise to increase the hammer drill speed and torsion.
- Turn counterclockwise to lessen speed and torsion.



## Changing from hammer drill to drill

- To drill concrete, floor tile or materials of similar hardness, move the impact-rotation selector (D) completely into the IMPACT (⬅) position. The bit will simultaneously impact and rotate onto the material.
- To drill metal, wood or plastic, move the impact-rotation selector completely into the ROTATION (↻) position. The bit will rotate onto the material.

**⚠ WARNING** Do not try to drill metal; wood or plastic with the hammer drill into IMPACT (⬅) mode setting. Otherwise the tool efficiency will lessen and the bit tip would get damaged.



## Rotation direction

- To get the bit to rotate forward and drill, move the rotation selector lever (E) towards the arrow pointing the chuck.
- To get the bit go reverse and use the tool as a screwdriver, move the rotation selector lever towards the arrow pointing the hammer drill handle.

**⚠ WARNING** Never use the tool in reverse when the impact-rotation selector is in the IMPACT (⬅) position, otherwise, the impact system will be severely damaged.

## Wood drilling

- To make holes of 1/4" or less it is recommended to use high speed bits. To make holes larger than 1/4", it is recommended to use spade bits for wood.
- Turn impact-rotation selector to drill mode (◀▶▶ pointing towards the chuck).

**⚠ CAUTION** • Secure the workpiece to prevent it from turning when drilling.

- Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material.
- When drilling through the holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.
- Release the trigger when the hammer drill may need to be stopped suddenly.

## Metal drilling

- Use high speed steel bits for metal or steel drilling.
- Move impact-rotation selector to drill mode (◀▶▶ pointing towards the chuck).
- Use a center punch to mark the hole location on the workpiece.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Maintain speed and pressure which allows cutting without overheating the bit.

**⚠ CAUTION** Applying too much pressure or faster speed will: overheat the drill, wear the bearings, bend or burn bits and produce off-center or irregular shaped holes

- When drilling large holes in metal, it is recommended to drill with a small bit at first, then finish with a larger bit.
- Lubricate the bit with oil to improve drilling action and increase bit life.

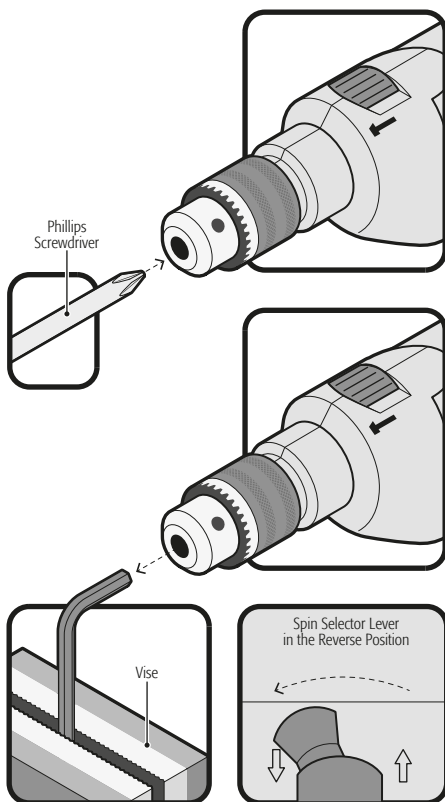
## Masonry drilling

- Use tungsten carbide-tipped masonry act bit when drilling holes in brick, tile, concrete, etc.
- Move impact-rotation selector to hammer mode (▶▶▶ pointing towards the chuck).
- Apply light pressure and medium speed for best results in brick.
- Apply additional pressure and high speed for hard materials such as concrete.
- When drilling in tile, practice on a scrap piece to determine the best speed and pressure.



## Chuck Replacement

- Remove the auxiliary handle.
- Open the chuck jaws all the way.
- Using a screwdriver remove the left-threaded safety screw with a clockwise movement.
- Fit the long side of an "L" (not included) Hex key in a vise.
- Insert the short side of the "L" (not included) Hex key to the chuck. Close the jaws.
- Move the spin selector lever into the reverse position (page 7). Fasten the drill firmly and activate the drill. The chuck will be released with the turn.
- Set the new chuck turning it into the hammer drill thread until it stops.
- Open the jaws fully and thread the screw in a counterclockwise position. Tighten with a screwdriver.



## Cleaning and care

- To guarantee adequate motor cooling, always keep slots clean and free of obstructions.
- Regularly inspect all the mounting screws. Double-check they are properly tighten. If any screw is loose tighten immediately.

## Service

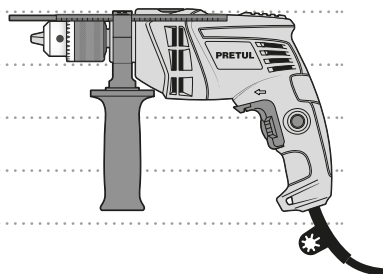
- Service should only be made in a **TRUPER** Authorized Service Center. Service and maintenance performed by non-qualified people may be dangerous and lead to personal injuries. It also makes the product Warranty void.

## Lubrication

- We recommend lubricating the tool transmission every carbon brush change in a **TRUPER** Authorized Service Center.

## Carbon brush replacement

- Carbon brushes should be checked periodically.
- When one or both carbon brushes show signs of wear go to a **TRUPER** Authorized Service center to have both carbon brushes replaced. When replaced, see if the new carbon brushes move freely in the carbon brush housing. Ask to turn on the tool during five minutes to make the contact in the carbon brushes and the commutator even.
- 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, always change both.



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.

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