

Manual

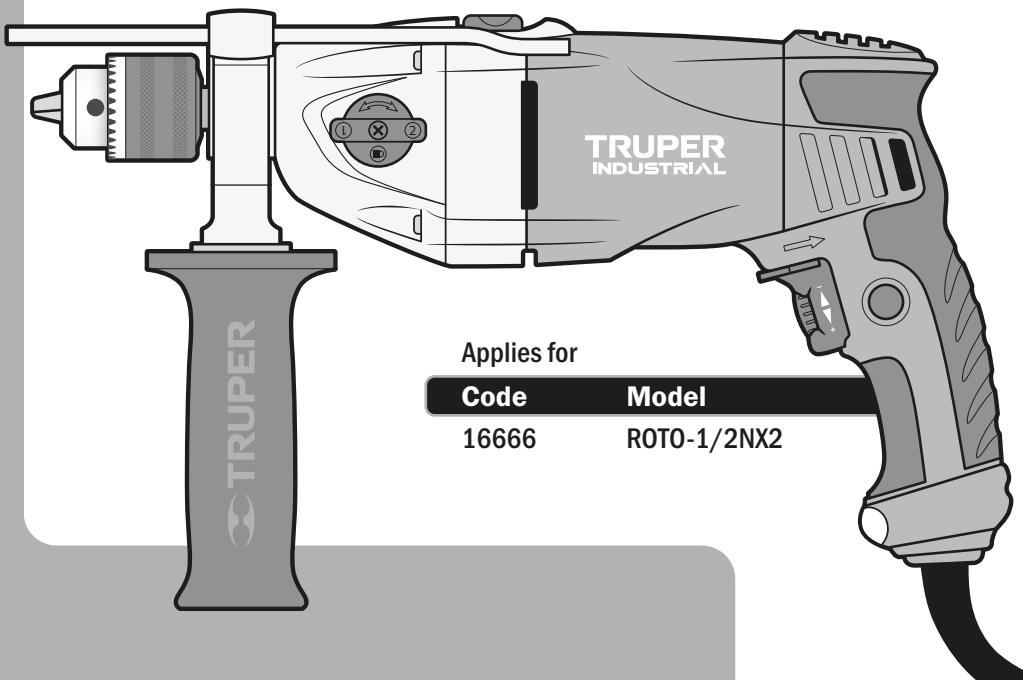
Hammer drill

9 A

Motor

1/2"

Chuck



ROTO-1/2NX2

 **CAUTION**



Read this manual thoroughly
before using the tool.



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WARNING

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary and to avoid hazards or fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

Use and care recommendations



RESPECT THE WORK CYCLES

50 min of work per 20 min of rest. Maximum 6 hours daily



AVOID using the cord to move, lift or disconnect the tool



NEVER change the drive selectors while the chuck is spinning



To **EXTEND** the life of your tool, use compressed air (blow) to clean it after each use



Keep the tool's ventilation slots **CLEAN**



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

ROTO-1/2NX2

Code	•	16666
Description	•	Hammer drill
Chuck	•	1/2"
Voltage	•	127 V~
Frequency	•	60 Hz
Current	•	9 A
Power	•	1200 W
Functions	•	Hammer drill - Drill
Speed	•	Position 1: 0 - 1400 RPM Position 2: 0 - 3 300 RPM
Strokes per minute	•	Position 1: 0 - 22 400 BPM Position 2: 0 - 52 800 BPM
Drilling Capacity	•	Concrete: 3/4" Metal: 1/2" Wood: 1 1/2"
Rotation line	•	Forward - Reverse
Duty Cycle	•	50 min of work per 20 min of rest. Maximum 6 hours daily
Conductors	•	16 AWG x 2C with insulating temperature of 221 °F
Insulation	•	Class II IP Grade • IP20

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.

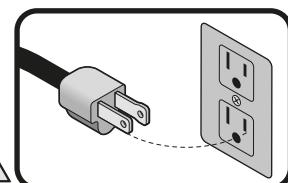
Do not expose to rain, liquids and/or dampness.



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 insulations eliminates the need of 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 5.9' to 49.2' higher than 49.2'
from 0 A and up to 10 A		18 AWG (*)
from 10 A and up to 13 A		16 AWG
from 13 A and up to 15 A	3 (one grounded)	14 AWG
from 15 A and up to 20 A		8 AWG

* It is safe to use only if the extensions have a built-in artifact for over current protection.
AWG = American Wire Gauge. Reference: NM-J-195-ANCE

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



ENGLISH

⚠ 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 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.



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

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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 (0.5").
- 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.
- Use well sharp and in good condition bits / accessories to optimize works.

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 before connecting the drill. Otherwise, it can unexpectedly start operating and could cause sever 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 de work piece. Then, remove the bit off the work piece. Do not try removing stuck bits turning on and off the tool.

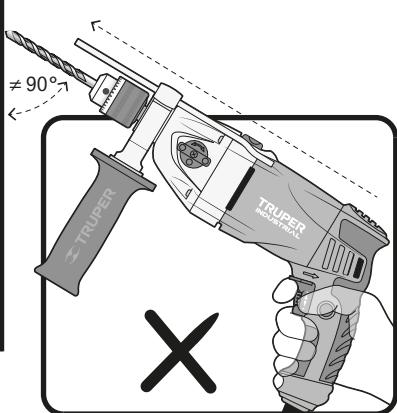
- Do not apply too much force on the tool in order to accelerate the drilling procedure. The bit could get damaged and the tool would loose efficiency and useful life.

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°

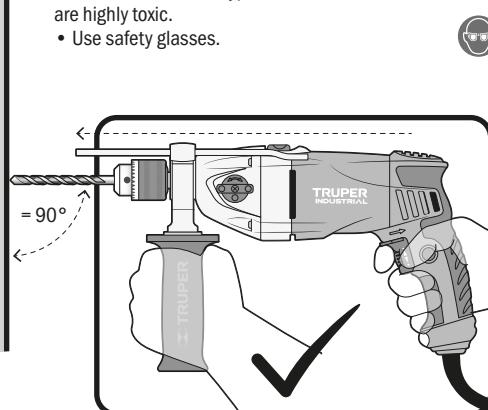
• Be prepared to relax the drilling force when the bit goes through the material. Sudden movements could break the bit or damage the hammer drill.

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.

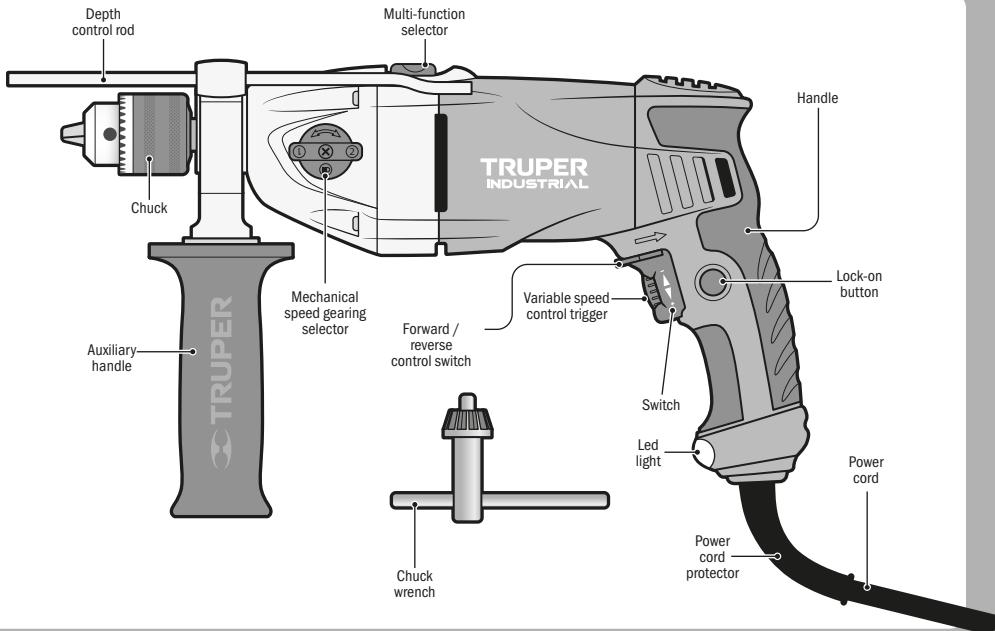
- Immediately after using do not set the tool where there are particles and / or dust. They can be absorbed into the tool mechanism and cause damage.
- Use earplugs when using the hammer drill. Exposure to noise can cause hearing loss.
- Use dust mask and dust extractor if necessary. Remember that materials 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.



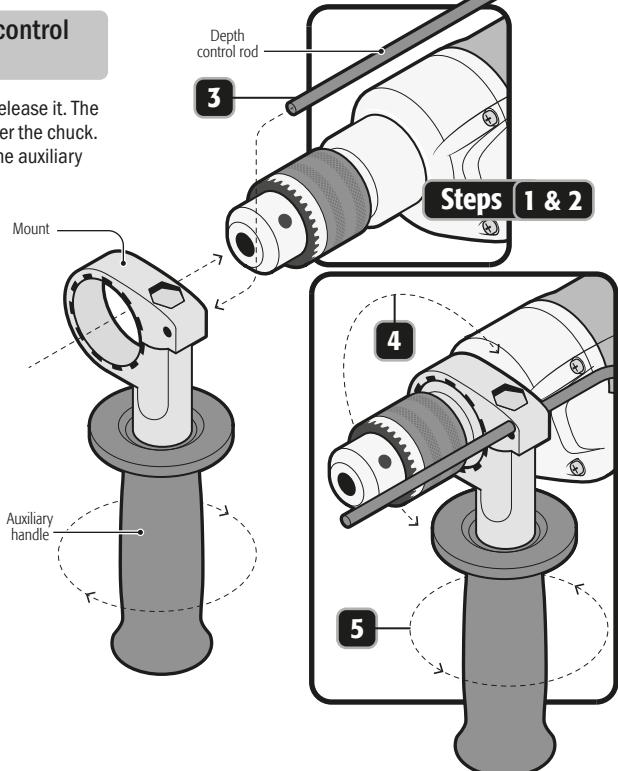
Right way to operate the hammer drill.



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.



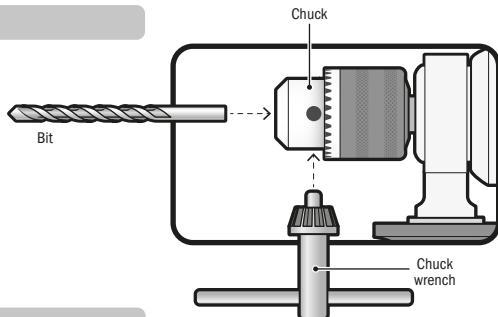
Preparation

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Bit fitting

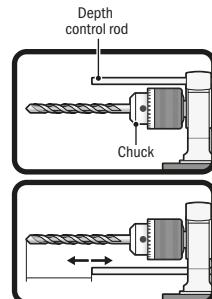
- Put the bit into the chuck until it stops. Fasten with the chuck wrench and tighten alternately the chuck into each of the orifices.

WARNING Clean off the bit and chuck burrs and any other debris. Otherwise the bit would not be properly fastened and cause severe personal injury.



Adjustment of the depth control rod

- Loosen the auxiliary handle (see page 6 for Safety Handle Assembly) to allow for free movement on the rod.
- Move the depth rod so that the distance between the end of the rod and the end of the drill bit is equal to the desired drilling depth.
- Tighten the auxiliary handle (see page 6 Auxiliary Handle Assembly) to lock the rod in place.
- Stop when the end of the rod reaches the surface when drilling with the depth rod.



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.

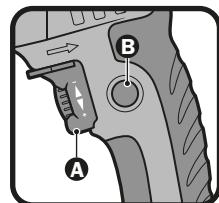
To stop, just release the switch.

- Continuous Operation:

Connect the plug into the power inlet.

Press the switch (A) and block it pressing the lock-on button (B).

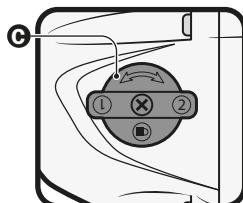
To stop, press and then, release the switch.



Selection of speed range (mechanical speed)

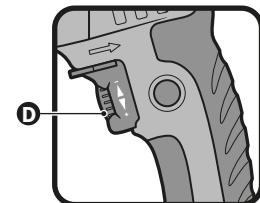
- The two speeds that the rotary hammer has function in a similar way to those used in cars.
- The low speed (1) will give you a lot of torque (Twisting power).
- Use this speed when starting to drill large holes, either in metal or concrete, this will prevent the drill bit from getting stuck. Orient the number 1 towards the back.
- The high speed (2) has reduced torque but allows the rotary hammer to operate at higher revolutions per minute, which will make the rotary hammer, in its drilling function, drill wood or thin metal faster. Orient the number 2 towards the back.

CAUTION Do not rotate the selector while the tool is operating.



Speed control

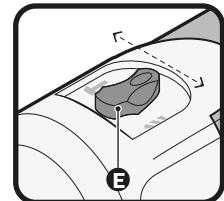
- The tool can run in different speeds. Select by adjusting speed control (D) in the switch.
- Turn speed control clockwise to increase the hammer drill speed and reduce torsion.
- Turn counterclockwise to lessen speed and increase torsion.



Changing from hammer drill to drill

- To drill concrete, floor tile or materials of similar hardness, move the impact-rotation selector (E) completely into the IMPACT position (pointing towards ). 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 (pointing towards ). The bit will rotate onto the material.

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

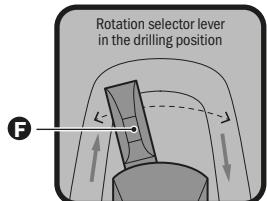


Rotation direction

- To get the bit to rotate forward and drill, move the rotation selector lever (F) 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

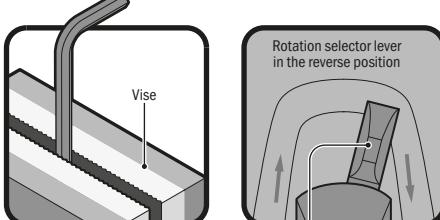
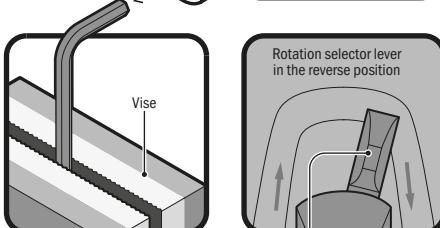
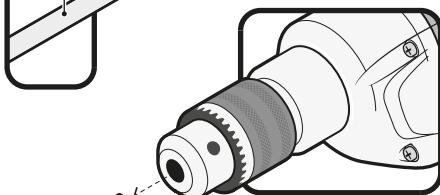
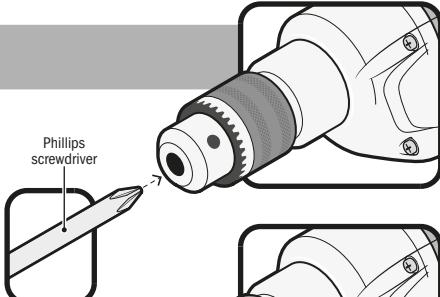
Never use the tool in reverse when the impact-rotation selector is in the IMPACT (pointing towards  position, otherwise, the impact system will be severely damaged.



Maintenance

Chuck change

- Remove the auxiliary handle and open the chuck jaws.
- Using a screwdriver remove the left-threaded safety screw with a clockwise movement.
- Fit the long side of a Hex key (not included), in a vise and insert the short side of the Hex key (not included), to the chuck. Close the jaws.
- Move the rotation selector lever into the reverse position (pag 7, rotation direction) and fastening with a firm hand activate the hammer drill. The chuck will be released with the turn.
- Set the new chuck turning it into the hammer drill thread until it stops.
- Open fully the jaws and set the screw threading counter-clockwise. Tighten with a screwdriver.



Cleaning and care

- To guarantee an 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

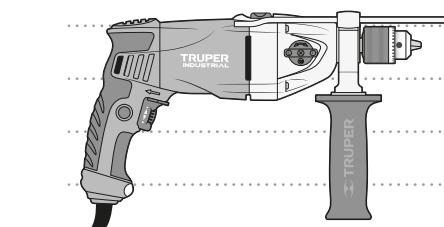
- We recommend lubricating the tool transmission every carbon brush change in a TRUPER Authorized Service Center.
- However, within two or six months, depending on usage, take or send your tool to an Authorized Service Center to perform a complete cleaning, inspection, and lubrication. Tools that are constantly used in production work will have to be lubricated more frequently. Additionally, tools that have been "out of service" for long periods of time will need to be lubricated before being used again.

Carbon brush replacement

- Carbon brushes shall be checked periodically. When showing signs of wear go to a TRUPER Authorized Service Center to have both carbon brushes replaced.
- When replaced, ask the technician to inspect if the new carbon brushes move freely in the carbon brush housing. Ask to turn on the toll during 5 minutes to even the contact in the carbon brushes and the commutator.
- 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.

Accessories and spare parts

	101442	MAN-ROTO-N1	Replacement handle for ROTO-1/2NX2, 1/2NX2-2, 1/2N7Y 1/2N6
	101705	INT-ROTO-1/2NX2	Replacement switch for ROTO-1/2NX2
	19627	CB-RT-1/2NX2	Replacement 2 carbon brushes for ROTO-1/2NX2



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 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	DETODOPARALACONSTRUCCIÓN 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.: 613 132 1115
CAMPECHE	TORNILLERÍA Y FERRETERÍA AAA AV. ÁLVARO OBREGÓN #324, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808
CHIAPAS	FIX FERRETERÍAS AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083
CHIHUAHUA	SUCURSAL CHIHUAHUA AV. SILVESTER TERRAZAS #128-11, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAUHTEMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052
CIUDAD DE MÉXICO	FIX FERRETERÍAS EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35, COL. CENTRO, C.P. 06060, CUAUHTEMOC, CDMX. TEL: 55 5522 5031 / 5522 4861
COAHUILA	SUCURSAL TORREÓN CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL: 871 209 68 23
COLIMA	BOMBAS Y MOTORES BYMTESA DE MANZANILLO BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL.: 314 332 1986 / 332 2013
DURANGO	TORNILLOS ÁGUILA, S.A. DE C.V. MAZURI #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO.TEL.: 618 817 1946 / 618 818 2844
ESTADO DE MÉXICO	SUCURSAL CENTRO JILOTEPEC PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257 TEL: 761 782 9101 EXT. 5728 Y 5102
GUANAJUATO	CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V. AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL.: 461 617 7578 / 79 / 80 / 88
GUERRERO	CENTRO DE SERVICIO ECLIPSE CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL.: 747 478 5793
HIDALGO	FERREPRECIOS S.A. DE C.V. LIBERTAD ORIENTE #304 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL.: 775 753 6615 / 775 753 6616
JALISCO	SUCURSAL GUADALAJARA AV. ADOLFO B. HORN # 6800, COL. SANTA CRUZ DEL VALLE, C.P.: 45655, TLAJOMULCO DE ZÚÑIGA, JAL. TEL.: 33 3606 5285 AL 90
MICHOACÁN	FIX FERRETERÍAS AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA, MICH. TEL.: 443 334 6858

MORELOS	FIX FERRETERÍAS CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
NAYARIT	HERRAMIENTAS DE TEPIC MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
NUEVO LEÓN	SUCURSAL MONTERREY CARRETERA LAREDO #300, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, 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 AV PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUATLACINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
QUERÉTARO	ARU HERRAMIENTAS S.A. DE C.V. AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
QUINTANA ROO	FIX FERRETERÍAS CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 3140
SAN LUIS POTOSÍ	FIX FERRETERÍAS AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, S.L.P. TEL.: 444 822 4341
SINALOA	SUCURSAL CULIACÁN AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL.: 667 173 9139 / 173 8400
SONORA	FIX FERRETERÍAS CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. OBREGÓN, SON. TEL.: 644 413 2392
TABASCO	SUCURSAL VILLAHERMOSA CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 353 7244
TAMAULIPAS	VM ORINGS Y REFACCIONES CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRIGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 926 7552
TLAXCALA	SERVICIOS Y HERRAMIENTAS INDUSTRIALES PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
VERACRUZ	LA CASA DISTRIBUIDORA TRUPER BLVD. PRIMAVERA, ESO. HORTENSIA S/N, COL. PRIMAVERA C.P. 93308, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
YUCATÁN	SUCURSAL MÉRIDA CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMAN, C.P. 97390, MÉRIDA, YUC. TEL.: 999 912 2451

Code**Model****Brand**

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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. The warranty includes transportation expenses resulting from service compliance within our service network. 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: