

ENGLISH  
ESPAÑOL

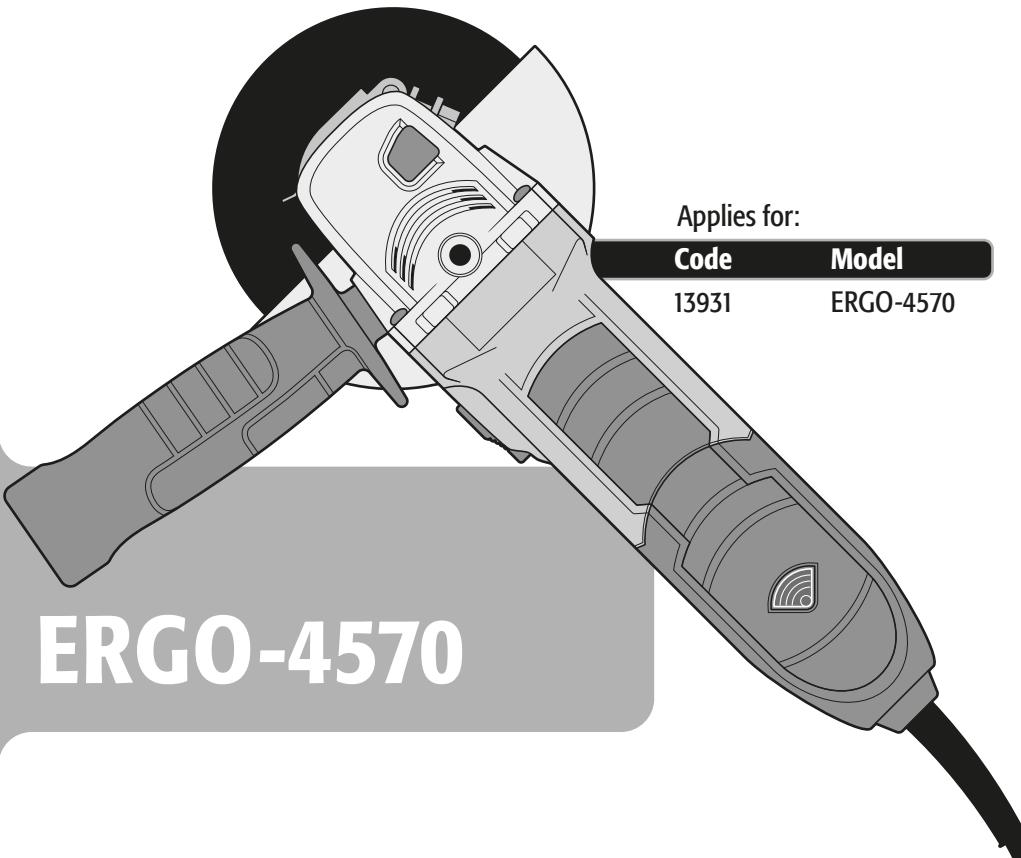
TRUPER®  
ERGO-PRO

Manual

# Angle grinder

1 Hp  
Power

4½"  
Disc



Applies for:

Code

13931

Model

ERGO-4570

# ERGO-4570

 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

**TRUPER®  
ERGO-PRO**

**ERGO-4570**

Code	•	13931
Description	•	Angle grinder
Discs	•	4 1/2 "
Voltage	•	127 V~
Frequency	•	60 Hz
Current	•	5 A
Power	•	1 Hp
Speed	•	12 000 RPM
Duty cycle	•	30 minutes work per 15 minutes idle. Maximum 3 hours per day.
Conductors	•	18 AWG x 2C with insulating temperature of 221 °F
Insulating	•	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

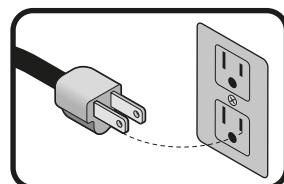
**WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a  TRUPER Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not 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 eliminate the need of a grounded 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		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 specially designed for operating outdoors and reduce the risk of electric shock.



**⚠ 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.

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.



## General power tool safety warnings



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 or long hair may get caught in moving parts.



If you have dust extraction and collection 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 angle grinders

**TRUPER®  
ERGO-PRO™**

## Select the right disc

- CAUTION** • Never use discs with bigger diameter than the size required in the tool.
- WARNING** • Use only discs or accessories than 12 000 RPM speeds.
- CAUTION** • Use only discs or accessories with an orifice that fits perfectly in the tool spindle.
- CAUTION** • Use only discs or accessories specifically designed for the chosen material.

## Before operating the grinder

- Set apart some time and assess the job you are about to do. Pay attention to all the necessary cautions before starting to grind.

**DANGER** • Remove all the fastening wrenches from the tool. Otherwise they can shoot away causing severe injuries to the user.

**WARNING** • Double-check the guard. It should be perfectly fastened and in good working condition. Do not use the tool without a guard.

**CAUTION** • Double-check the disc. It should not be broken or cracked. Tap the disc gently with a wooden hammer and listen for a strange sound to learn if is cracked.

**DANGER** • Before plugging the tool, see if is in the OFF position. Otherwise the tool could start unexpectedly causing severe injuries.

**CAUTION** • Run the tool 30 seconds before using, to detect important vibration or any type of unusual movement. If detected, unplug the tool and take it to a **TRUPER®** Authorized Service Center.

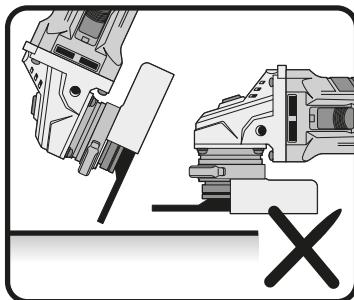
**CAUTION** • See if the disc rotates freely.

• Do not tighten the disc. It could brake.

**WARNING** • To work with small work pieces fasten with wrenches. Never use your hands to hold the piece.

## While operating the grinder

- CAUTION** • Do not start the tool when the disc is touching the work piece.



Wrong way to operate the grinder

**WARNING** • Wear safety glasses, gloves and an apron when using the tool.

**WARNING** • Keep the power cable or extension in the back of the tool. Avoid accidentally damaging the cables with the disc.

• If control of the power tool is lost, the cable may be cut or tangled and the operator's arm or hand may be pulled toward the rotary attachment.

**WARNING** • Never hold the tool by the power cable. Hold by the housing or auxiliary handle.

**CAUTION** • Hold the tool by the isolated parts. The cutting tool could come into contact with hidden wiring or its own cable. Making contact with a "live" wire causes the metal parts to electrify and give an electric shock to the user.

• Never let go of the power tool until the attachment comes to a complete stop.

• Never hit the work surface with the disc.

**CAUTION** • To get the best result with the grinding process, the inclination of the disc and the working surface should have an angle measuring 15° to 30°.

**DANGER** • When the disc is rotating never use the spindle lock to stop it. It is very dangerous and may cause injuries to the user.

**CAUTION** • Do not touch the disc or the working piece after grinding. Wait for them to cool down. Never try to cool them down using water or oil.

**WARNING** • Before checking, adjusting or changing discs, double-check the tool is not plugged in.

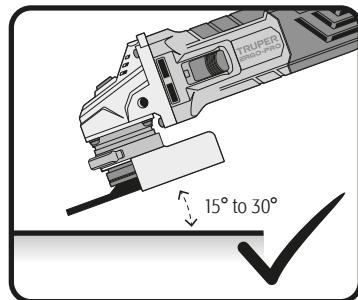
• Do not use the power tool near flammable materials.

• Do not operate the tool while it is being transported to your side.

**DANGER** • Sparks caused when grinding may be dangerous. Use caution. Make sure sparks do not get into contact with skin or flammable substances.

• Gradually clean the tool's vents. The motor fan directs dust into the housing and excessive accumulation of metal dust can cause an electrical hazard.

• Do not use accessories that require liquid refrigerants. The use of water or other liquid refrigerants can result in an electric shock.



Right way to operate the grinder

**⚠ DANGER KICKBACK (Sharp Recoil)**

Kickback (sharp recoil) is a sudden reaction when a rotating wheel, backrest, brush, or other accessory gets stuck or snagged. Stalling or snagging causes rapid stalling of the rotary attachment which in turn causes the power tool to be forced uncontrollably in the direction opposite to the rotation of the attachment at the working point.

An abrasive disc jams into the workpiece, the edge of the contacting disc can be pinched into the surface of the material causing the disc to stop, creating a kickback (sudden recoil). The disc may break and the fragments may jump in the direction of or away from the operator, depending on the direction of disc movement at the point of jamming.

Kickback can occur as a result of misuse of power tools and/or improper operating procedures or conditions and can be avoided by taking the precautions listed below:

- a) Keep a firm grip on the power tool. Maintain your body and arm so that they can resist the forces of kickback. Always use the auxiliary handle, if provided, for maximum control over kickback or the reaction of the torsional movement of the engine during starting. The operator can control the torsional movement and the kickback forces if the appropriate precautions are taken;
- b) Never place your hand near the rotating attachment.

The accessories may kick back in your hand;

- c) Do not place your body in the area where the power tool can move if kickback (sudden recoil) occurs.

This will propel the power tool in the opposite direction of disc movement at the point of engagement or binding;

- d) Take special care when working on corners, sharp edges, among others. Avoid bouncing and jamming of the attachment.

When working corners, sharp edges, or bouncing, can cause the attachment to jam and result in loss of control of the power tool or kickback (sudden recoil) of the power tool.

**⚠ WARNING Specific safety for grinding and cutting operations with abrasives**

- a) Use only disc types that are recommended for the specific power tool and the specific tool holder that is designed for the selected disc.

Discs that are not designed for the power tool cannot be properly protected and are unsafe;

- b) The grinding surface of discs with a sunken center must be installed below the plane of the guard.

An improperly installed disc may project burrs outside the plane of the guard and cannot be properly protected;

- c) The guard must be securely fastened to the power tool and positioned to provide maximum safety, so that the least amount of the blade is exposed to the operator.

- d) Discs should be used only for their recommended applications. For example: do not grind with the side of a cut-off wheel.

Abrasives discs are used for perfect grinding. If lateral forces are applied, they can break;

- e) Always use flanges in perfect condition, of the correct size according to the shape of the selected disk.

A flange with the correct characteristics supports the disc, which reduces the possibility of disc rupture. The flanges for cut-off wheels can be different from the flanges for grinding wheels;

- f) Do not use worn out disks from larger or higher capacity tools

Disks that are designed for larger or higher capacity tools are not suitable for the increased speed that occurs in the operation of a smaller size or capacity tool and may defragment.

**⚠ WARNING Additional safety warnings for abrasive cutting operations**

- a) Avoid locking or applying excessive pressure to the abrasive cut-off wheel. Do not attempt to make an excessively deep cut.

Applying excessive force to the disc increases the load on the power tool and the susceptibility to deformation in the cutting area and increases the possibility of kickback (sudden recoil) or blade breakage;

- b) Do not place your body in line and behind the rotating disc.

When the disc, at the point of operation, is aligned with your body, the possibility of a kickback (sudden recoil) can propel the spinning disc and the power tool directly against you;

- c) When disc operation is interrupted or cutting stops for any reason, turn off the power tool and keep it stationary until the disc comes to a complete stop. Do not attempt to remove the blade while it is in motion, as this may cause kickback (sudden recoil) or similar effect.

Investigate and complete corrective actions to eliminate the cause of the spin interruption;

- d) Do not restart the cutting operation on the workpiece. Allow the blade to reach maximum speed off the workpiece and carefully restart cutting.

The abrasive cut-off disc can jam, move upwards or produce a kickback if cutting is restarted on the workpiece;

- e) Support large workpieces on presses or clamping brackets to reduce the risk of the abrasive cut-off disc becoming trapped or of kickback (sudden recoil).

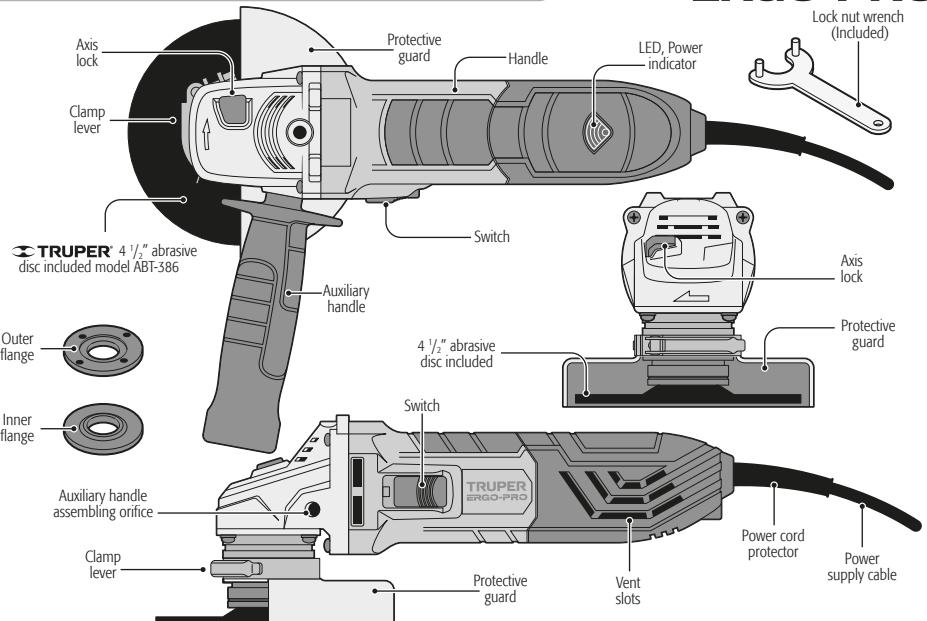
Large pieces tend to sink under their own weight. Brackets should be placed under the workpiece near the cutting line and near the edge of the workpiece on both sides of the abrasive cut-off wheel;

- f) Be careful when making a "very small cut" in walls or other blind areas or where there is no visibility of internal components.

The protruding abrasive cutting disc can cut through gas or water pipes, electrical wiring, or objects that may cause kickback (sudden recoil).

# Parts

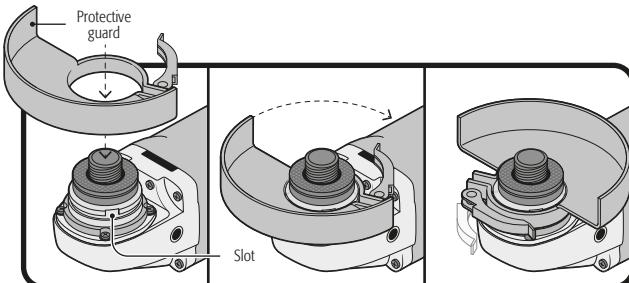
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**ERGO-PRO**



# Assembly

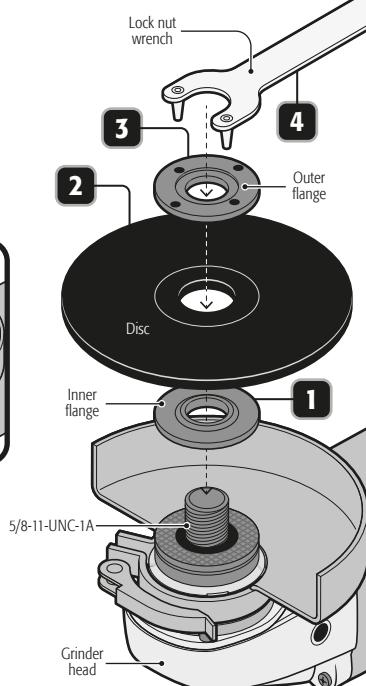
## Protection Guard Assembly

- Open the clamp lever and align the protruding parts inside the guard, push the guard down until the protruding parts engage and rotate freely with the corresponding slots in the shaft cover.
- With the clamp lever open, turn the guard to the desired working position.
- Fix pushing the clamp lever.



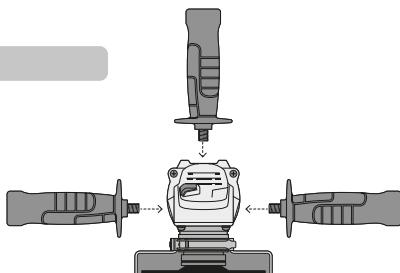
## Disc Assembly

1. Fit the inner flange onto the axis.
  2. Set the disc onto the inner flange.
  3. Set the outer flange onto the axis.
  - Press the axis lock into the grinder head.
  4. Screw the outer flange with the lock nut wrench until securely fastened.
- DANGER** The axis lock should only be used to change discs.  
Never use the axis lock to stop the disc while rotating.



**Auxiliary handle assembly**

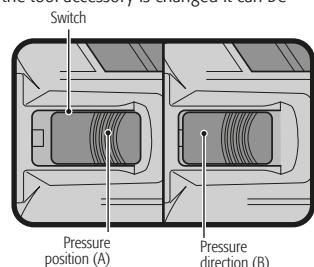
- For a safer operation use the auxiliary handle. Fit it into any of the three mounting orifices. Use the one that makes your job easier.

**Start Up**

The angle grinder is a manual power tool used to grind and cut steel, pipes, iron angles, brick, tile, stone and / or ceramic pieces; to remove burr on metal surfaces, to level and make smooth welding lines. If the tool accessory is changed it can be used to remove oxide and to polish metal surfaces and other materials.

**Switch On**

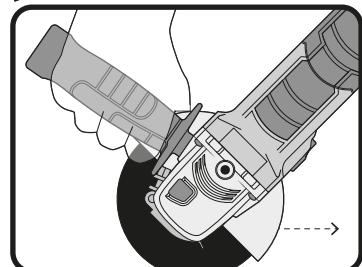
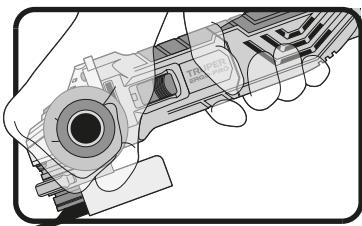
- Connect the plug to the power inlet.
- Press the switch exactly in the pressing position (A), without releasing it, direct the pressure forward (B) and push down slightly, release the switch to remain locked.
- To stop operation, press in the pressing position (A) and then release the switch.

**How to correctly hold the tool**

Always hold the tool with both hands. Hold the handle with one hand and the other hand hold the auxiliary handle. Be careful not to obstruct the ventilation slots.

• Grinding:  
For better results hold the tool 15° to 30° regarding the work piece. Move forwards to backwards applying light pressure with a constant rhythm. This way the work piece does not get too hot, will not discolor and there will not be rough edges.

• Cutting:  
Do not press, tilt or oscillate the tool. Work at a moderate speed. The disc should always rotate counterclockwise since there is a risk the tool shoots out uncontrolled.  
To cut hard stones using a diamond cutting disc is recommended.

**Useful tips**

- Work placing the disc in the right position to prevent damage.
- Press the work piece applying pressure lower than the tool's weight to prevent overload damaging the motor and the disc.
- After installing a new disc allow it to run unloaded at least one minute. If vibration occurs replace immediately.

**CAUTION** • Avoid working on wood or soft metals like lead. These materials saturate the disc very quickly making it useless.

- Always disconnect the tool before cleaning.
- Never use water or other liquids. Use only a brush.
- To prevent the motor to overheat clean the ventilation slots regularly.
- Check all the tool components are perfectly fixed.
- The housing should not be cracked or damaged.
- Double-check the power cable is not cut or peeled.
- After a prolonged use the grease on the tool head should be replaced in a  **TRUPER®** Authorized Service Center.

## Repairs

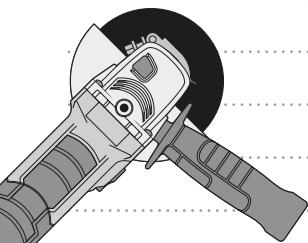
Use only spare parts and accessories recommended by the manufacturer. In the event the tool is not working, repairs should be performed in a  **TRUPER®** Authorized Service Center

## Carbon brush replacement

- Carbon Brushes should be periodically checked and when worn, replaced always in a  **TRUPER®** Authorized Service Center.
- After replacing the carbon brushes request to inspect if the new carbon brushes can move freely in the carbon housing. Also request to run the tool 5 minutes to make even the contact with the carbon brushes and the commutator.
- Use only original  **TRUPER®** spare carbons specifically designed with the hardness and resistance adequate for each type of motor. Carbons that are out of specification could damage the motor.
- Both carbons should be changed simultaneous.
- For better results, it is recommended to use grinding and/or cutting disc to 4-1/2"  **TRUPER®**

## Storage

Neatly store the tool in a dry place and protected from dust and water.



# 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 0187-8737** 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	MORELOS	<b>FIX FERRETERÍAS</b> CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
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	NAYARIT	<b>HERRAMIENTAS DE TEPIC</b> MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
BAJA 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	NUEVO LEÓN	<b>SUCRASAL MONTERREY</b> CARRETERA LAREDO #300, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAZ, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
CAMPECHE	<b>TORNILLERÍA Y FERRETERÍA AAA</b> AV. ÁLVARO OBREGÓN #324, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808	OAXACA	<b>FIX FERRETERÍAS</b> AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300, TUXTEPEC, OAX. TEL.: 287 106 5092
CHIAPAS	<b>FIX FERRETERÍAS</b> AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083	PUEBLA	<b>SUCRASAL PUEBLA</b> AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUAUTLA/CINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
CHIHUAHUA	<b>SUCRASAL CHIHUAHUA</b> AV. SILVESTRE TERRAZAS #12-111, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052	QUERÉTARO	<b>ARU HERRAMIENTAS S.A DE C.V.</b> AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
MÉXICO CITY	<b>FIX FERRETERÍAS</b> EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 22, COL. CENTRO, C.P. 06060, CUAUHTÉMOC, CDMX. TEL: 55 5522 5031 / 5522 4861	QUINTANA ROO	<b>FIX FERRETERÍAS</b> CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL: 984 267 3140
COAHUILA	<b>SUCRASAL TORREÓN</b> CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL.: 871 209 6823	SAN LUIS POTOSÍ	<b>FIX FERRETERÍAS</b> AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, SLP. TEL: 444 822 4341
COLIMA	<b>BOMBAS Y MOTORES BYMTESA DE MANZANILLO</b> BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28229, MANZANILLO, COL. TEL.: 314 332 1986 / 332 2013	SINALOA	<b>SUCRASAL CULIACÁN</b> AV JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL.: 667 173 9139 / 173 8400
DURANGO	<b>TORNILLOS ÁGUILA, S.A. DE C.V.</b> MAZURIÓ #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO.TEL.: 618 817 1946 / 618 818 2844	SONORA	<b>FIX FERRETERÍAS</b> CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. OBREGÓN, SON. TEL.: 644 413 2392
ESTADO DE MÉXICO	<b>SUCRASAL CENTRO JILOTEPEC</b> AV. PARQUE INDUSTRIAL #1-A, C.P. 54240, JILOTEPEC, EDO. DE MÉX. TEL: 761 782 9101 EXT. 5728 Y 5102	TABASCO	<b>SUCRASAL VILLAHERMOSA</b> CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 353 7244
GUANAJUATO	<b>CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V.</b> AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL.: 461 617 7578 / 79 / 80 / 88	TAMAULIPAS	<b>VM ORINGS Y REFAJONES</b> CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRIGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 926 7552
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	TLAXCALA	<b>SERVICIOS Y HERRAMIENTAS INDUSTRIALES</b> PALO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
HIDALGO	<b>FERPRECIOS 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	VERACRUZ	<b>LA CASA DISTRIBUIDORA TRUPER</b> BLVD. PRIMAVERA ESQ. HORTENSIA S/N, COL. PRIMAVERA C.P. 93308, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
JALISCO	<b>SUCRASAL GUADALAJARA</b> AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL VALLE, C.P.: 45665, TLAJOMULCO DE ZÚÑIGA, JAL. TEL: 33 3606 5285 AL 90	YUCATÁN	<b>SUCRASAL MÉRIDA</b> CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL.: 999 912 2451
MICHOACÁN	<b>FIX FERRETERÍAS</b> AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-Hacienda de la Huerta, C.P. 58050, MORELIA, MICH. TEL.: 443 334 6858		

**Code****Model****Brand**

13931

ERGO-4570

**TRUPER®**  
**ERGO-PRO**

This product is guaranteed for 2 years. To make the warranty valid or purchase parts and components you must present the product in Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 or at the establishment where you purchased it, or at any Truper® Service Center listed in the annex to the warranty policy and/or in [www.truper.com](http://www.truper.com). Transportation costs resulting from compliance of this warranty will be covered by  **TRUPER®**.

For questions or comments, call **800-690-6990**. Made in China. Imported by Truper S.A. de C.V. Parque Industrial 1, Jilotepec, Edo. de Méx. C.P. 54240

**2**  
**YEARS**

Stamp of the business. Delivery date:

Sello del establecimiento comercial. Fecha de entrega:

Este producto está garantizado por 2 años. Para hacer válida la garantía o adquirir piezas y componentes debida presentar el producto en Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 o en el establecimiento donde lo compre, o en algún Centro de Servicio Truper® de los establecimientos que resulten para su cumplimiento dentro de la Ciudad de México o en el Estado de México o en el Estado de Guanajuato o en www.truper.com . Los gastos de transporte que resulten para su cumplimiento se harán cargo del cliente por **TRUPER**.  
Para dudas o comentarios, llame al 800-690-6990. Hecho en China. Importado por Truper S.A. de C.V. Parque Industrial 1, Jilotepetl, Ed. de Mex. C.P. 54240



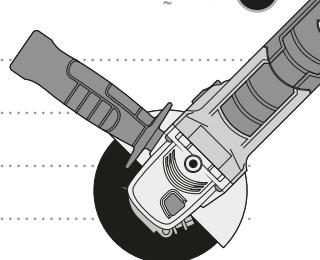
Código	Modelo	Marca	ERGO-PRO	TRUPER®	ERGO-PRO	13931
						ERGO-4570

**Poliza de Garantía**

**ERGO-PRO**  
**TRUPER®**

En caso de tener algún problema para contactar un Centro de Servicio Autorizado Truper®, consulte nuestra página [www.truper.com](http://www.truper.com) donde obtendrá un listado actualizado, o llame al: **800 690-6990** ó **800 0187-8737** donde le informarán cuál es el Centro de Servicio más cercano.

MEXICO	AV. PASEO DE LA INDUSTRIAL #200, COL. GRANITO, CP 20050.	AGUASCALIENTES	DE TODO PARA LA CONSTRUCCION	CAMPESINO	AV. ALVARO OBREGON #20, COL. SUREÑA, CP 24080 CAMPESINO, CDMX.	
BAJA CALIFORNIA	TEL.: 664 969 5100	BAJA CALIFORNIA	FONDO II, C.P. 22241, Tijuana, B.C.	BAJA CALIFORNIA SUR	TEL.: 661 112 1115	
CHIHUAHUA	TEL.: 661 5522 5031 / 5522 4861	CHIHUAHUA	SUCURSAL CHIHUAHUA	CHIHUAHUA	AV. SILESTRE MATERAZA #128-11, PARQUE INDUSTRIAL TORRENTE, C.P. 31200.	
MEXICO	TEL.: 55 5522 5031 / 5522 4861	MEXICO	SUCURSAL CHIHUAHUA	COL. MIGUEL ELENA MARIBI #280, COL. MANZANILLO, CDMX.	COLIMA	TEL.: 871 209 66 25
DURANGO	TEL.: 314 352 1986 / 333 8013	DURANGO	SUCURSAL NUEVO MUNDO S.A. DE C.V.	GUANAJUATO	ED. 1A, PRADEO INDUSTRIAL #225, COL. SANTA FE, C.P. 38010.	
ESTADO DE MEXICO	DGO. TEL.: 618 817 1946 / 618 818 2844	ESTADO DE MEXICO	TORNILLOS ACUILLA, S.A. DE C.V.	GUERRERO	CAE, FEERTEA NUEVO MUNDO S.A. DE C.V.	
GUERRERO	ED. 1A, PRADEO INDUSTRIAL #225, COL. SANTA FE, C.P. 38010.	GUERRERO	ESTADOS DE SERVICIO INDUSTRIAL #1-A, CDMX.	HIDALGO	CHILPANCINGO, CDMX. TEL.: 747 478 5793	
GUANAJUATO	DGO. TEL.: 761 182 0101 EXT. 7528 / 79 / 88 / 88	GUANAJUATO	FEERTECA NUEVA MUNDOS A.C.	JALISCO	ED. 1A, PRADEO INDUSTRIAL #240, TULANCINGO, C.P. 43600.	
JALISCO	ED. 1A, PRADEO INDUSTRIAL #240, TULANCINGO, C.P. 43600.	JALISCO	SUCURSAL GUADALAJARA	MICHOACAN	AV. PASEO DE LA REPUBLICA #310-A, COL. SANTO CRISTO DEL VALLE, C.P. 45655 TULANCINGO, C.P. 43600.	
MICHOACAN	MICH. TEL.: 443 344 6858	MICHOACAN	FIX ERRETERAS	MICHOACAN	MICH. TEL.: 443 344 6858	
MORELOS	CAPTAIN ANTIGRIDS #95, ESO, JOSE PEREZ, COL. CENTRO, CP. 63000, TEPIC, NAY.	MORELOS	FIX ERRETERIAS	Nayarit	TEL.: 733 252 8931	
NAYARIT	MZ.11 258 0540	NAYARIT	HERMANNETAS DE TEPIC	NUEVO LEÓN	COLONIA PLAZA DEL MONTE, C.P. 66052 ESCOBEDO, NUEVO LEÓN	
OAXACA	TEL.: 287 106 0529	OAXACA	FIX ERRETERIAS	OAXACA	NEUVO LEÓN, TEL.: 18 8352 7819 / 18 8352 8790	
PUEBLA	TEL.: 222 282 282 / 84 / 86	PUEBLA	SUCURSAL PUEBLA	PUEBLA	TEL.: 222 2710 SAN LORENZO ALMECTALA, C.P. 77700 PUEBLA DEL CARMEN, C.P. 78320.	
QUERETARO	TEL.: 994 267 3140	QUERETARO	AV. PUEBLO DEL FEDERAL MZ. 46 LT. 3 LOCAL 2, COL. EJIDAL,	QUINTANA ROO	CRISTELA FEERTEA #10, COL. EL PASO, C.P. 78320.	
QUINTANA ROO	TEL.: 994 267 3140	QUINTANA ROO	FIX ERRETERIAS	QUINTANA ROO	SAN LUIS POTOSI, SL.P. TEL.: 44 22 4341	
SINALOA	TEL.: 661 715 3193 / 715 8400	SINALOA	SUCURSAL SINALOA	SINALOA	MORA, C.P. 80143, UAGUACI, SINAL.	
TABASCO	TEL.: 64 44 32329	TABASCO	SUCURSAL TABASCO	TAMAUAPAS	TEL.: 993 265 7244	
TAMAUAPAS	TEL.: 222 171 7502	TAMAUAPAS	VERACRUZ	VERACRUZ	TEL.: 782 823 0100 / 826 8484	
TAZACALA	TEL.: 222 171 7502	TAZACALA	LA CASA DISTRIBUIDORA TRUPER	TAZACALA	TEL.: 782 823 0100 / 826 8484	
TAZACALA	TEL.: 222 171 7502	TAZACALA	SERVICIOS Y HERMANNETAS INDUSTRIALES	TAZACALA	TEL.: 782 823 0100 / 826 8484	
TAZACALA	TEL.: 222 171 7502	TAZACALA	VERACRUZ	VERACRUZ	TEL.: 782 823 0100 / 826 8484	
TAZACALA	TEL.: 222 171 7502	TAZACALA	YUCATAN	YUCATAN	TEL.: 999 912 2451	
YUCATAN	TEL.: 999 912 2451	YUCATAN	SUCURSAL MERIDA	YUCATAN	MEXICO, UNA, 79790, MERIDA, YUC.	
YUCATAN	MEXICO, UNA, 79790, MERIDA, YUC.	YUCATAN	YUCATAN	YUCATAN	TEL.: 999 912 2451	



Notas

ERGO-PRO<sup>®</sup>  
TRUPER

polvo y agua

almacenarla en un lugar seco y protegida de

## Almacenamiento

- Para mejores resultados, se recomienda utilizar discos de corte y/o desbastar carbonas.
- Cuando se haga el cambio de carbonas siempre deban reemplazarse los dos carbonas.
- Una vez que se han cambiado las carbonas, se debe proceder a la lubricación del motor.
- Siempre se deben usar carbonas de repuesto originales **TRUPER**.
- Despues de usar carbonas de repuesto, se debe limpiar el motor.
- Una vez que se han cambiado las carbonas, se debe proceder a la lubricación del motor.
- Despues de usar carbonas de repuesto, se debe proceder a la lubricación del motor.
- Los carbonas deben revisarse periodicamente, y ser reemplazados siempre por un Centro de Servicio Autorizado **TRUPER**.

## Cambio de carbonas

algun Centro de Servicio Autorizado **TRUPER**.  
caso de que la herramienta no funcione la reparación deberá ser realizada por una tienda especializada o taller autorizado.

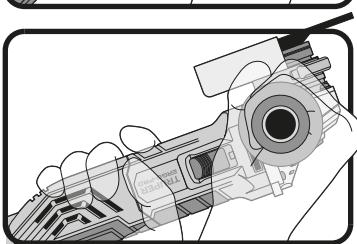
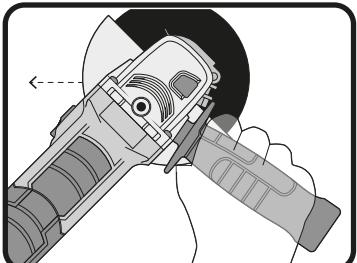
## Reparación

- Revise que todos los componentes de la herramienta estén bien fijos.
- La carcasa no debe estar curvada o dañada.
- Revise que la herramienta esté bien fija.
- Verifique que la mano esté regular.
- Para elizar agua u otros líquidos, débe limpiar las ranuras de ventilación de la herramienta.
- Nunca utilice agua u otros líquidos, solamente utilice un cepillo.
- Descocante siempre la herramienta antes de proceder a limpiarla.

material es saturan muy rápido el disco y lo hacen inservible.

ATEN

- Tropoche en el disco en la posición correcta de la herramienta para evitar que se dañe.
  - Presione sobre la placa de tabla con una fuerza menor al peso de la herramienta para evitar que se deslice.
  - Que la sobrepesa dñe el motor y el disco.
  - Después de instalar un disco nuevo permite que el disco gire sin trabas al menos un minuto.
  - Es caso de que este vibrante reemplácelo de inmediato.



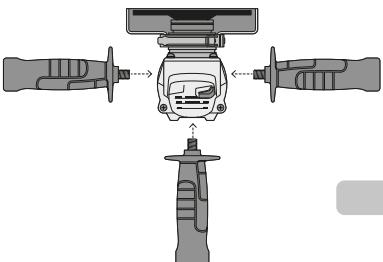
Como sujetar adecuadamente la herramienta

- Conecte la clavija al tomacorriente.
  - Presione el interruptor encendiendo en la posición de presión (A).
  - Si sin soltarlo, si la presión hace deslizante (B) y empuje ligeramente hacia abajo, se libera el interruptor para el manejo bloqueado.
  - Para liberar el interruptor sufuncionamiento, presione en la posición de presión (A).
  - Despues se libera el interruptor.

Encendido

admirable soldaderas. Si se cambia el accesoario de la herramienta se puede utilizar para limpiar oídos y para pulir superficies de metal y otros materiales.

# Puesta en marcha

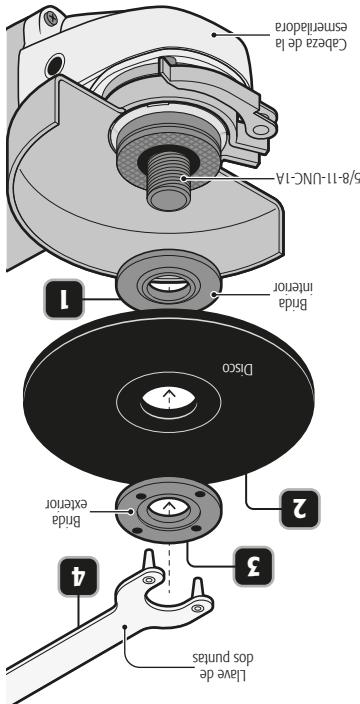


**Montaje**

#### Montaje del mango auxiliar

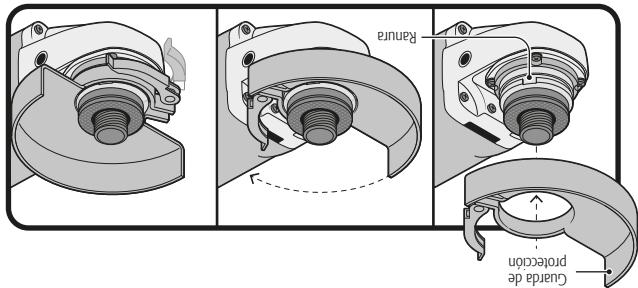
- Pàs d'un operació segura utilitzant mètode d'abordatge.
  - Col·loqueli el alginu de los tres orificis para montar lo que facilita més el treballa.

**ERGOC-PRO  
TRUPEER**



- PELGRO** El seguimiento del eje sólo se debe de utilizar para cambiar los discos. Nunca para frenar el disco mientras este grande.
- 4. Algunas veces la brida exterior con la llave de dos puntas hasta que quede bien fija.
  - Presione el seguimiento del eje en la abertura de la semielíptica.
  - 3. Coloque el disco en la brida interior.
  - 2. Coloque el disco en la brida interior.
  - 1. Fije la brida interior en el eje.

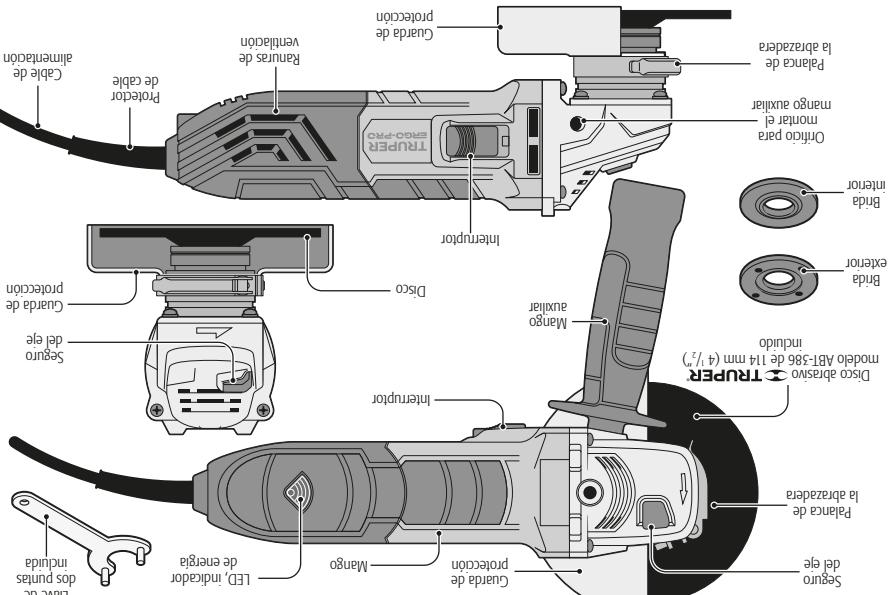
### Montaje del disco



- Fije la empalme de la palanca de la abrazadera.
- Posición de trabajo deseada.
- Con la palanca de la abrazadera abierta, gire la guarda de protección hasta la posición de trabaja deseada.
- Abarca la palanca de la abrazadera y hace coincidir las partes sobresalientes del soporte de la abrazadera con las ranuras correspondientes de la abrazadera del eje.

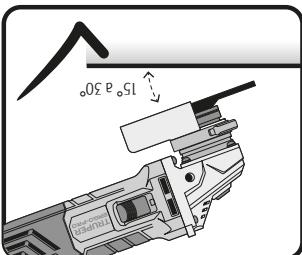
### Montaje de la guarda de protección

## Montaje





forma correcta de operar la esmeriladora



15° a 30°

.

El uso de agujas o otros relligerantes líquidos puede resultar en un choque eléctrico.

• No utilice accesorios que requieran relligerantes líquidos.

• Limpiar gradualmente las rejillas de ventilación de la

parte inferior gradualmente las rejillas de ventilación de la herramienta. El ventilador del motor dirige hacia el polvo a la parte inferior.

• Utilice una sustancia inflamable.

• Asegúrese de que no entre en contacto con la parte exterior resultante del polvo si no se limpia las medidas.

**A PELIGRO** • Las chips que provocan el esmerilado desencadenan una reacción química que tóxica para las medidas.

• No opere la herramienta mientras la transporta a su lado.

• No utilizar la herramienta eléctrica cerca de materiales inflamables.

• No utilizar la herramienta eléctrica cerca de materiales descocenclados antes de revisar, ajustar o cambiar el disco.

**A ADVERTENCIA** • Verifique que la herramienta esté lista para manipularla. No intente extraer las medidas con aguja o

• No toque el disco que causa lesiones al usuario.

**A ATENCIÓN** • Utilice el disco que para frenarlo, ya que se debe

**A PELIGRO** • Cuando el disco este girando no se debe

a 30°.

• El disco ya superficie de la herramienta debe tener un angulo de 15°.

**A ATENCIÓN** • Para obtener un buen resultado el disco debe tener un angulo entre el

accesorio se detenga completamente.

• Nunca soltar la herramienta eléctrica hasta que el

electrónica al separar.

• El contacto con una "vivo" hará que las partes

de agarre alisadas cuando lleva a cabo operaciones por las partes

de agarre auxiliar.

**A ADVERTENCIA** • Nunca sostenga la herramienta por el cable de alimentación, sostengala del cuerpo o por

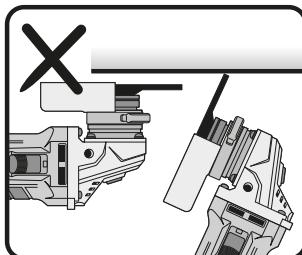
el cable de alimentación, sujetela al otro extremo.

Si se pierde el control de la herramienta eléctrica, el cable accidentalmente cae en el disco.

por defectos de la herramienta para evitar daños.

**A ADVERTENCIA** • Mantenga el cable o la extensión

forma incorrecta de operar la esmeriladora



seguirán dañando la herramienta cuando el disco esté en la mano.

**A ADVERTENCIA** • Utilice lentes de seguridad al usar la herramienta.

**A ADVERTENCIA** • Para trabajar piezas pequeñas fijelas con mordazas o pinzas. Nunca use las manos para tirar.

**A ADVERTENCIA** • Nunca use el disco giro libremente. rompeise.

• No apriete demasiado el disco, de lo contrario podría

**A ATENCIÓN** • Verifique que el disco giro libremente.

**A ADVERTENCIA** • Utilice el disco giro libremente.

**A ATENCIÓN** • Encienda la herramienta 30 segundos antes de utilizarla para detectar vibraciones considerables o

antes de utilizarla para detectar vibraciones considerables o

**A ADVERTENCIA** • Utilice la herramienta a una velocidad segura para minimizar la inesperadamente.

**A ADVERTENCIA** • Utilice la herramienta a una velocidad segura para minimizar la inesperadamente.

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**ERGOC-PRO<sup>®</sup>**  
**TRUPER<sup>®</sup>**

Advertencias de Seguridad para uso de esmeriladoras

Ejemplo de disco apropiado

para uso de esmeriladoras



**ADVERTENCIA** Al operar herramientas eléctricas en exteriores, utilice una extensión especializada para el uso en exteriores y reduzca el riesgo de sufrir una descarga eléctrica.



AWG = Calibre de alambre estadounidense American Wire Gauge. Referencia: NM-B-195-ANC E. Se permite la utilización siempre que las extensiones mismas estén conectadas en serie dentro de un circuito de protección contra sobrecorriente.

de 0 hasta 10 A	18 AWG(*)	Número de conductores	Calibre de extensión	Amperes
de 10 hasta 15 A	16 AWG	3 (uno a tierra)	de 1,8 m a 15 m	de 0 hasta 15 m
de 13 hasta 15 A	16 AWG	14 AWG	14 AWG	de 15 hasta 20 A
de 16 AWG	16 AWG	12 AWG	12 AWG	6 AWG
de 18 AWG	18 AWG			

ampares indicados en la placa de datos de la herramienta. Si tiene dudas use el siguiente calibre más alto.

significante tabla muestra el tamaño correcto que debe usarse dependiendo de la longitud del cable y de la capacidad de cableado suelto para transportar la tensión en la línea, teniendo como resultado el menor consumo de energía su herramienta. Un

**ADVERTENCIA** Al usar un cable de extensión, asegúrese de usar el cable de un calibre inferior o igual al que se consume su herramienta.



conexión a tierra o de un sistema de conexión eléctrica con conexión a tierra.

reforzada elimina la necesidad de un cable de conexión de tres partes con

derredor de líquidos durante su operación. No lo exponga a líquidos y/o humedad.



**ADVERTENCIA** Las herramientas de doble aislamiento y aislamiento de conexión a tierra o conexión a tierra de los terminales, todos los circuitos de alimentación deben ser desconectados.



La clase de aislamiento térmico de los devanados del motor: Clase E  
La base de construcción de esta herramienta es de aluminio por salpicaduras.

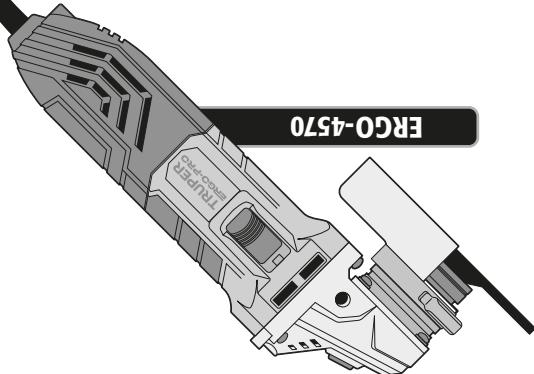
El cable de alimentación tiene sujetacables tipo Y.

Código	13931	Descripción	Esmeriladora angular
Disco(s)	114 mm (4 1/2")	Tensión	127 V ~
Frecuencia	60 Hz	Corriente	5 A
Potencia	750 W	Velocidad	12 000 r/min
Ciclo de trabajo	•	Alislamiento	• Clase II
Conductores	• 18 AWG x 2C con temperatura de aislamiento de 105 °C	Grado IP	• IP20
Clase de aislamiento térmico de los devanados	• La base de construcción de esta herramienta es de aluminio por salpicaduras.	•	

**TRUPER®** ERGO-PRO

ERGO-4570

Especificaciones técnicas



ERGO-4570

Para poder sacar el máximo provecho de la herramienta, alargar su vida útil, hacer válida la garantía en caso de ser necesario y evitar riesgos o lesiones graves, es fundamental leer este instructivo por completo antes de usar la herramienta.

Guarde este instructivo para futuras referencias. Los gráficos de este instructivo son para referencia, pueden variar del aspecto real de la herramienta.

## ATENCIÓN

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| 7  | Partes                              |
| 5  | Advertencias de Seguridad           |
| 4  | Advertencias generales de seguridad |
| 3  | Requerimientos eléctricos           |
| 3  | Especificaciones técnicas           |

**ERGO-PRO**  
**TRUPER®**



Lee este instructivo por completo  
antes de usar la herramienta.

**ATENCIÓN**



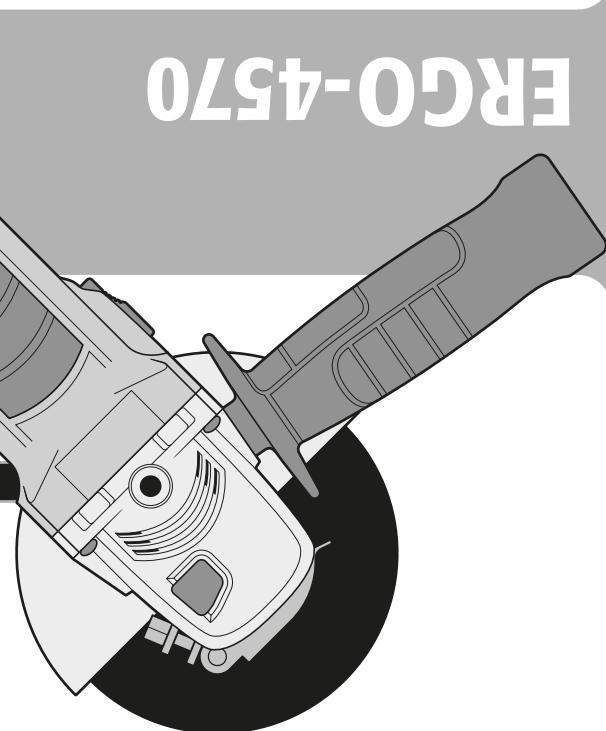
# ERGO-4570

Este instructivo es para:  
Modelo ERGO-4570  
Código 13931

750 W  
 $4\frac{1}{2}$ "  
114 mm  
Diámetro  
Potencia

## Esmerrilladora angular

Instructivo de



**ERGO-PRO**  
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ESPAÑOL  
ENGLISH