

ENGLISH
ESPAÑOL

TRUPER®

Manual

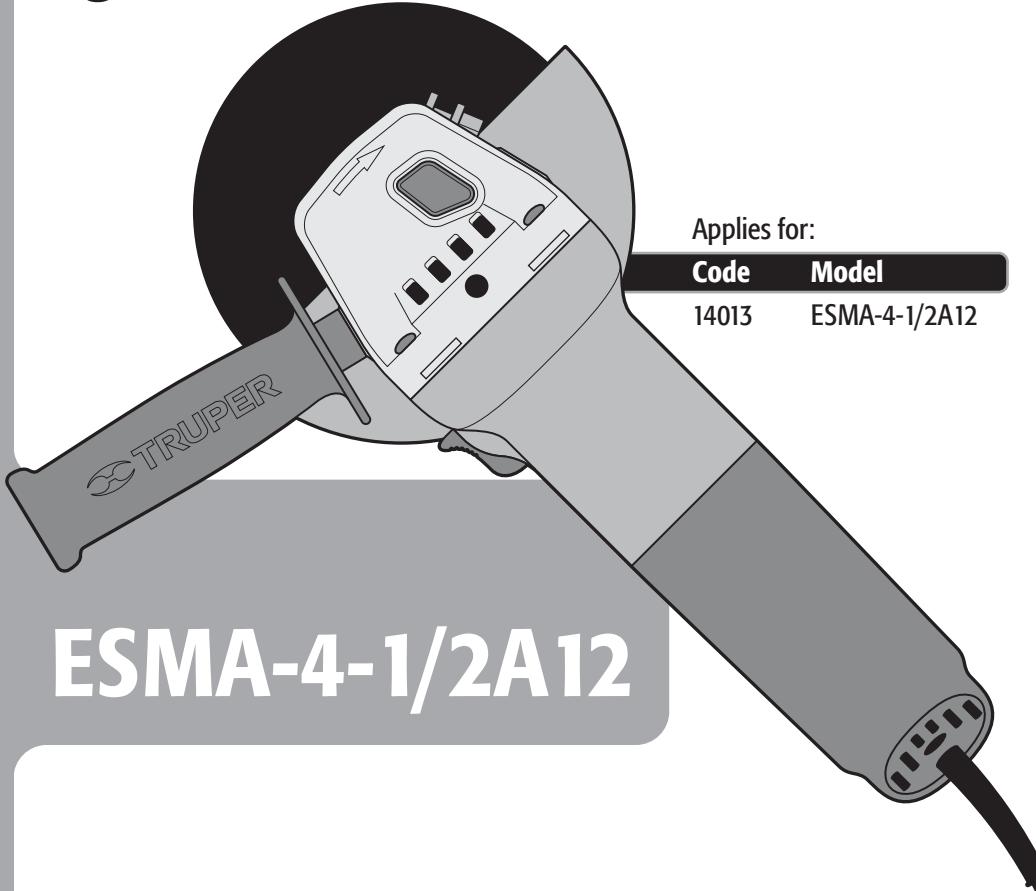
Angle grinder

0.9 Hp

Power

4 $\frac{1}{2}$ "

Disc



Applies for:

Code **Model**

14013 ESMA-4-1/2A12

ESMA-4-1/2A12

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.



ESMA-4-1/2A12

| | | |
|--------------------|---|--|
| Code | • | 14013 |
| Description | • | Angle grinder |
| Discs | • | 4 1/2 " |
| Voltage | • | 127 V ~ |
| Frequency | • | 60 Hz |
| Current | • | 5.1 A |
| Power | • | 0.9 Hp |
| Speed | • | 11 000 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.

Thermal insulation on motor winding: Class B

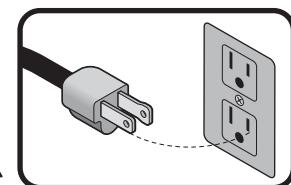
WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to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

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



Power Requirements

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



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

| Ampere Capacity | Number of Conductors | Extension gauge | |
|--------------------------|----------------------|-----------------|-----------------|
| | | from 6' to 49' | higher than 49' |
| from 0 A and up to 10 A | | 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 grounded extension cable labeled "For Outdoors Use". These extensions are specially designed for operating outdoors and reduce the risk of electric shock.



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 loss of control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.

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 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 angle grinders

 **TRUPER®**

This power tool is intended to function as a cutting tool. Read all safety warnings, instructions and specifications provided. Failure to follow the instructions outlined below may result in electric shock, fire and/or serious injury.

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 11 000 RPM speeds.

The rated speed of the accessory must be at least equal to the maximum speed marked on the tool. Accessories running faster than their rated speed may break and become detached.

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.

Keep present people at a safe distance from the work area. Anyone entering the work area should wear personal protective equipment.

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. Fragments of workpieces or a broken accessory can break off and cause damage beyond the immediate area of operation.

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.

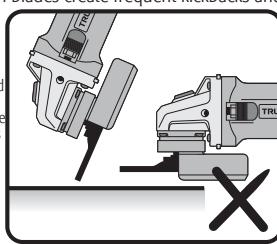
CAUTION • See if the disc rotates freely.
• Do not tighten the disc. It could brake.

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

DANGER Do not place saw discs for wood or a serrated blade. Such blades create frequent kickbacks and loss of control.

Operations for which this power tool is not designed may result in an accident and cause personal injury. It is not recommended to use this power tool in operations such as sanding, brushing or polishing.

Do not use accessories that are not specifically designed and recommended by the manufacturer.



Wrong way to operate the grinder

While operating the grinder

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

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.

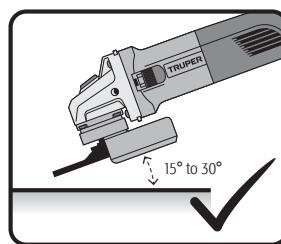
WARNING • Before checking, adjusting or changing discs, double-check the tool is not plugged in.

• 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.

Do not use damaged accessories. Before each use inspect the accessories. * Check abrasive discs for damage.

- * Check backing pads for cracks, tears or excessive wear

After inspecting and installing the accessory, operate the tool at maximum speed without charge for one minute.

Damaged accessories usually break during this period of time.

Do not use accessories that are not specifically designed and recommended by the manufacturer. The fact that the accessory may be installed on the power tool does not ensure safe operation.

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

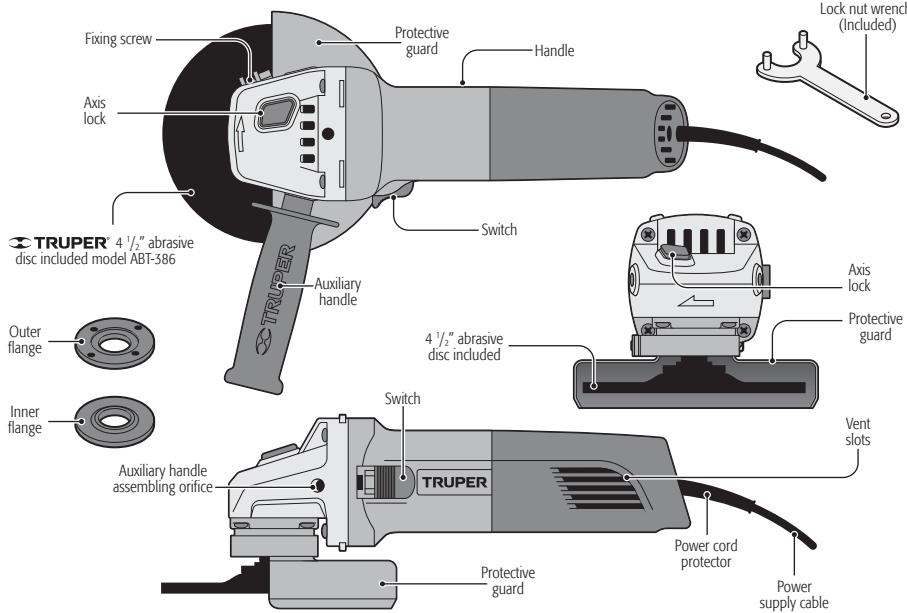
Large pieces tend to sink under their own weight. Brackets should be placed under the workpiece near the cutting line and near the edge of the workpiece on both sides of the abrasive cut-off wheel;

- 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

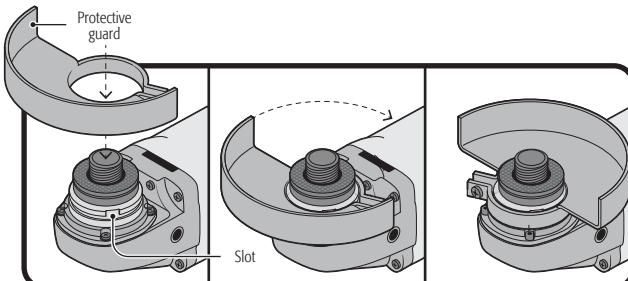
 **TRUPER®**



Assembly

Protection Guard Assembly

- Using a philips screw, loosen the fixing screw so that the inner side of the guard passes freely over the slots on the cover.
- Match both cantilevered parts inside the protection guard with the corresponding slots in the axis cover. Push down to the cover.
- Turn 180° into the opposite position.
- Fix guard by tightening the fixing screw.

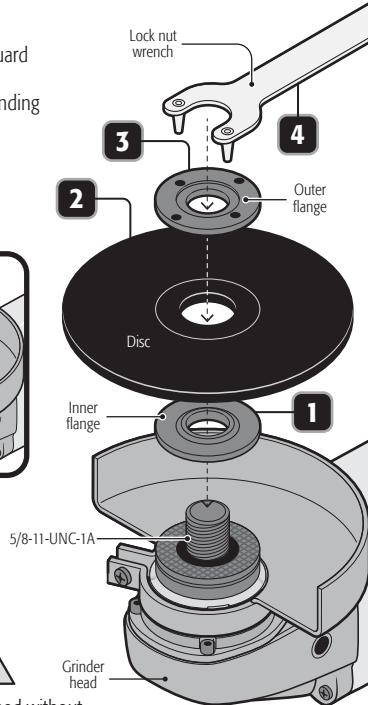


Disc Assembly

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.

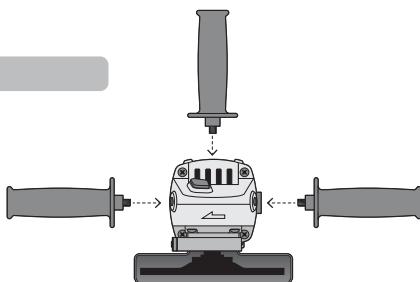
DANGER The axis lock should only be used to change discs.
Never use the wrench to stop the disc while rotating.

After installing and inspecting the accessory, operate the tool at maximum speed without load for one minute. Damaged accessories usually break during this period of time.



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.

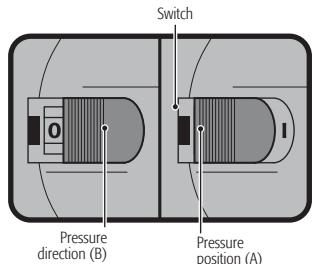


Start Up

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.

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 lock it..
- To stop operation, press in the pressing position (A) and then release the switch.

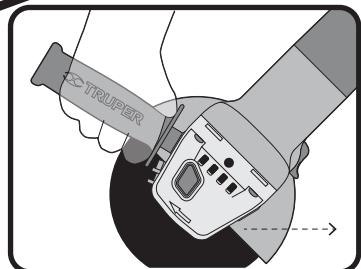
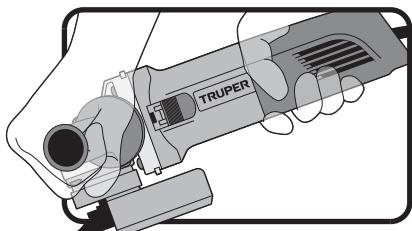


How to correctly hold the tool

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

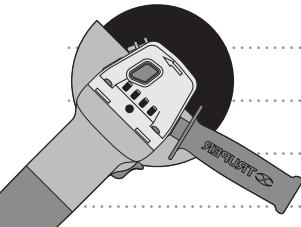
Use only spare parts and accessories recommended by the manufacturer. In the event the tool is not working, repairs should be performed in a  **TRUPER®** Authorized Service Center

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



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 0187-8737** to get information about the nearest Service Center.

| | |
|---------------------|---|
| AGUASCALIENTES | DE TODO PARA LA CONSTRUCCIÓN GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0537 |
| BAJA CALIFORNIA | SUCRASAL 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 ANGELES 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 #524, 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 | SUCRASAL CHIHUAHUA AV. SILVESTRE TERRAZAS #12-111, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052 |
| MÉXICO CITY | FIX FERRETERÍAS EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 22, COL. CENTRO, C.P. 06600, CUAUHTÉMOC, CDMX. TEL: 55 5522 5031 / 5522 4861 |
| COAHUILA | SUCRASAL TORREÓN CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL.: 871 209 6823 |
| COLIMA | BOMBAS Y MOTORES BYMTESA DE MANZANILLO BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28229, MANZANILLO, COL. TEL.: 314 332 1986 / 332 2013 |
| DURANGO | TORNILLOS ÁGUILA, S.A. DE C.V. MAZURIÓ #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO.TEL.: 618 817 1946 / 618 818 2844 |
| ESTADO DE MÉXICO | SUCRASAL CENTRO JILOTEPEC AV. PARQUE INDUSTRIAL #1-A, C.P. 54240, JILOTEPEC, EDO. DE MÉX. 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 | FERPRECIOS S.A. DE C.V. LIBERTAD ORIENTE #504 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL.: 775 753 6615 / 775 753 6616 |
| JALISCO | SUCRASAL GUADALAJARA AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL VALLE, C.P.: 45655, TLALCUMULCO 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 |

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| 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 | SUCRASAL 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 5092 |
| PUEBLA | SUCRASAL PUEBLA AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUAUTLACINGO, PUE. TEL: 222 282 8282 / 84 / 85 / 86 |
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| 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, SLP. TEL: 444 822 4341 |
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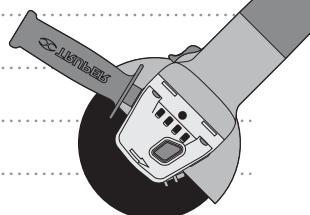
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| MEXICO | QUERÉTARO | TEL.: 66 996 5100 |
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Notas

TRUPER®

Almacenes la hermanita ordenadamente en un lugar seco y protegida de polvo y agua

Almacenamiento

- Los carbonos deben reemplazados siempre despues de que hayaan sido reemplazados, pida que se inspeccione si los desgastados.
 - Los carbonos deben revisarse periodicamente y ser reemplazados siempre por un Centro de Servicio Autorizado **TRUPER**. Cuando se hayan desgastado.
 - Los carbonos deben reemplazados siempre despues de que hayaan sido reemplazados, pida que se inspeccione si los encendan la heramienta durante 5 minutos para manipular el contacto de los carbonos y el commutador.
 - Solo se deben de usar carbonos de repuesto originales **TRUPER**.
 - Si los carbonos furea de motor. Los carbonos furea de especificaciones puden dañar el sistema de ignición.
 - Cambio de carbonos siempre deben reemplazarse los dos carbonos.
 - Para mejores resultados, se recomienda utilizar discos de corte y/o desbastadores.
 - Para un resultado de servicio periodico mire **TRUPER**.

Cambio de carbones

Utilice únicamente repuestos recomendados por el fabricante. En caso de que la herramienta no funcione la reparación deberá ser realizada por algún Centro de Servicio Autorizado **CTRUPER**.

Reparación

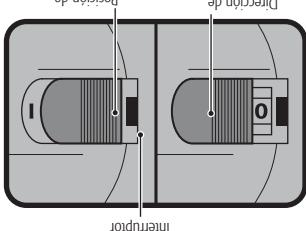
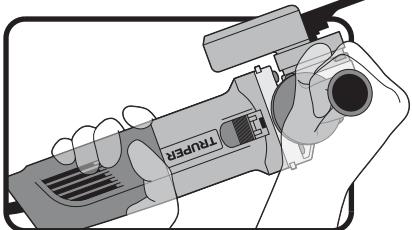
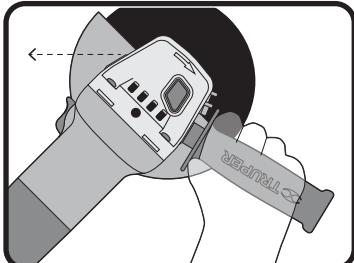
- Nunca utilice agua u otros líquidos, solamente utilice un cepillo.
 - Para evitar que se sobrecalienten el motor, débe limpiar las ranuras de ventilación de manera regular.
 - Revise que todos los componentes de la herramienta estén bien fijos.
 - La carcasa no debe estar cubierta o dañada.
 - Siempre revise que el cable no esté cortado o pedado.
 - Desconecte siempre la herramienta antes de proceder a limpiarla.
 - Nunca utilice agua u hidrocarburos, solamente utilice un cepillo.
 - Para evitar que se sobrecalienten las ranuras de ventilación de la herramienta, débe limpiarlas de manera regular.
 - La carcasa no debe estar bien fijos.
 - Siempre revise que el cable no esté cortado o pedado.
 - Despues de un uso prolongado la carcasa de la herramienta debe ser cambiada en un Centro de Servicio Autorizado CTRUPER.

Mantenimiento



maletas saturan muy rápidamente el disco y lo hacen inoperable.

- A ATENCIÓN** • Evite trabajar sobre una superficie de plomo. Pueden ser estos casos de que el disco se rompa.
- Despues de instalar un disco nuevo permita que el disco gire sin trabajar al menos un minuto.
- Presione sobre la pieza de trabajo con una fuerza menor al peso de la herramienta para evitar que la pieza se desplace en la posición correcta para evitar que se dañe.



Como sujetar adecuadamente la herramienta

- Coloque la clavija al tope de la herramienta.
- Presione el interruptor exactamente en la posición de presión (A), despues sujetelo firmemente.
- Siempre sostenga la herramienta con ambas manos. Una mano sostiene el mango auxiliar y la otra el mango auxiliar.
- Para un mejor resultado sostenga la herramienta de 15° a 30° con respecto a la pieza de trabajo. Haga trabajo a un ritmo constante. De esta forma la pieza de molinete no se calienta demasiado. De este modo la velocidad moderada, la herramienta dura más.
- Corte: Producen arrastres.

Corte: Producen arrastres.

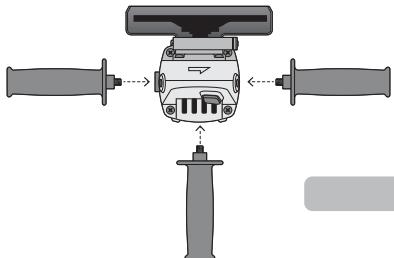
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- Corte: Producen arrastres.

Consejos útiles

- Corte: Producen arrastres.
- Para cortar piedras duras es recomendable usar un disco de corte de diamante.
- Existe el riesgo de que la herramienta salga despedida si se rompe el disco. Evite golpes en sentido al eje del disco.
- La velocidad moderada. Trabaje a una velocidad moderada.
- No presione, déjelo a oscilar la herramienta. Trabaje a una velocidad moderada.
- El disco debe girar siempre en sentido opuesto al movimiento de la herramienta.
- La herramienta debe girar hacia atrás con una ligera inclinación de 15°.
- Para una mejor resultado sostenga la herramienta de 15° a 30° con respecto a la pieza de trabajo. Haga trabajo a un ritmo constante. De esta forma la pieza de molinete no se calienta demasiado. De este modo la velocidad moderada, la herramienta dura más.

La esmeriladora angular es una herramienta eléctrica manual, se utiliza para esmerilar y cortar acero, tubos, hierro en ángulo, latidos, arandelas, plásticos, madera y/o piezas de cerámica; para quitar la rebaba de las superficies de metal, para niveles y montarlos en su fundamento, para quitar las ranuras de ventilación.

Puesta en marcha



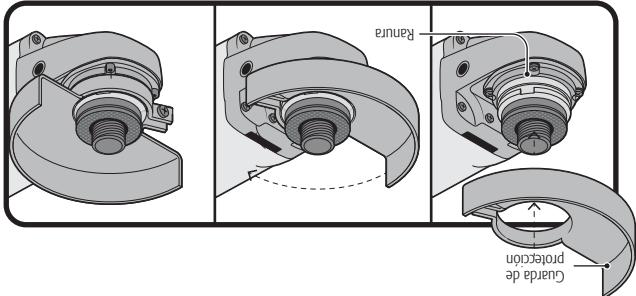
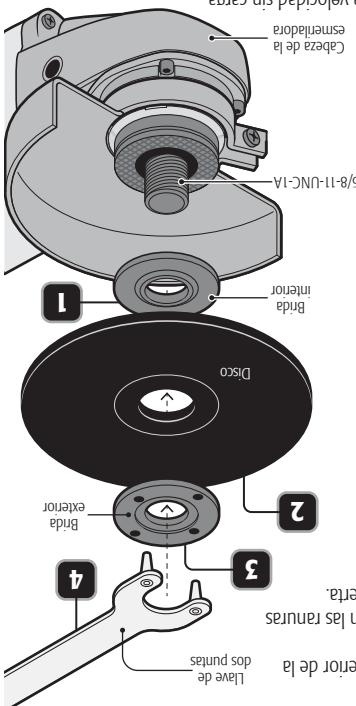
Montaje



Montaje del mango auxiliar

- Para una operación segura utilice el mango auxiliar, coloquelo en el fondo de los tres orificios para montarlo que le facilita más el trabajo.

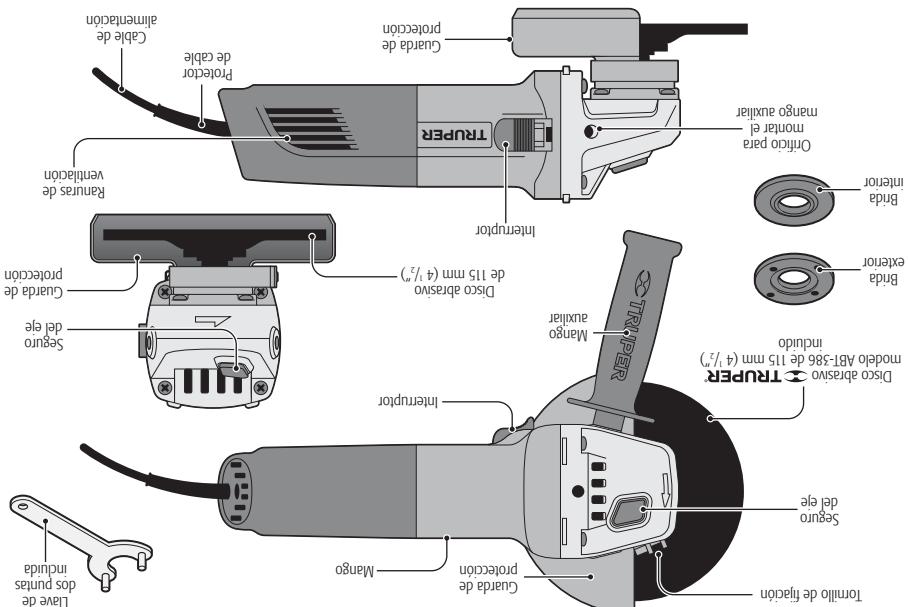
- Durante un minuto. Los accesorios con daflo, generalmente se rompen durante ese periodo de tiempo.
- Después de instalar la espiral de disco metálica en el accesorio la herramienta a la máxima velocidad sin carga, discos. Nunca para frenar el disco solo se debe de utilizar para calibrar los discos.
4. Atonille la brida exterior con la llave de dos puntas hasta que quede bien fija.
- Presione el seguro del eje en la hebilla de la espiraladora.
3. Coloque la brida interior en el eje.
2. Coloque el disco en la brida interior.
1. Fije la brida interior en el eje.



- Fije la guarda apretando el tornillo de fijación.
- Girela 180° a la posición opuesta.
- Con ayuda de un desarmador de cuchilla, afloje el tornillo de fijación para que el interior de la guarda pase libremente sobre las ranuras de la cubierta.
- Haga coincidir las partes sobresalientes del interior de la guarda de protección con las ranuras correspondientes de la cubierta del eje. Empuje hacia dentro hasta topar con la cubierta.
- Fije la guarda apretando el tornillo de fijación.

Montaje de la Guarda de Protección

Montaje



calyp-

The logo consists of the letters "NOM" in a large, bold, black font. To the left of "NOM" is a smaller, tilted rectangular box containing the word "ANCE" in white capital letters, with "NOM" written vertically above it. The entire logo is set against a dark background.

Para mantener la herramienta en un Centro de Servicio Autorizado **TRUEPER** usando solo piezas de repuesto idénticas.

Transpoter hermanas elertas con el doble sobre en posicón de **sentado** y/o la **bentra o respaldo**, antes de condensar a la **horizontal**.
Lamentablemente, las **hermanas eletas** que se usan en el **mercado** no cumplen con los **estándares de calidad** establecidos en la **norma TIC-001**.



ase en el que se expone la sección de seguridad, así como las principales características de los sistemas de protección contra incendios.

Segunda persona
Este altera, vigile lo que
cuando maneje una
bajo la influencia de un
un momento de distraccion
causar un daño personal.

El uso de un GFCI reduce el riesgo de choque eléctrico.

Si el uso de la herramienta en un lugar humano es inevitable use una alimentación protegida por un interruptor de circuito de falla a tierra (GFCI).

Ejemplo de uso extensión adecuada para extremores reduce el riesgo de choque eléctrico.

Los cables de hidrocarburos o energéticos suministran el riesgo de choque eléctrico. Cuando maneja una herramienta en exteriores, use una

No fúrcete el cable. Nunca use el cable para transportar, levantar o desencolar la herramienta. Mantenga el cable lejos del cable, accite, otras alfileras o piezas en movimiento.

No exponga la herramienta a la lluvia o condiciones de humedad.

Entre el contacto del cuerpo con superficies puestas a tierra como tuberías, radiadores, conductos eléctricos y refrigerador hay un mayor riesgo de choque eléctrico si el cuerpo está puesto a tierra

adaptador para chapas de herramientas puestas a tierra. 7 Clavijas modificadas y encubiertas diferentes aumentan el riesgo de choque eléctrico.

Seguridad eléctrica La clavija de la herramienta debe coincidir con el toma corriente. Nunca modifique una clavija. No use ningún tipo de

Mantenega alejados a los niños y curiosos cuando opera la herramienta.

7 Presencia de líquido, gas o polvo inmamádies; mas hermanas producen chispas que prenden encendido inflamable.

No manege la hermanienda en ambientes explosivos, como las áreas desordenadas y obscuras son propensas a accidentes.

Area de trabajo Manejemos el área de trabajo limpia y bien iluminada.

!ADVERTENCIA! Lea detenidamente todas las instrucciones. La omisión de alguna de ellas

AVERTENCIA: La determinación de las advertencias de seguridad y todas las instrucciones que se detallan a continuación, es responsabilidad del usuario de este producto. La omisión de cumplir con las instrucciones de uso puede dar como resultado un daño eléctrico, incendio y/o daño serio. Consulte las advertencias y las instrucciones para futuras referencias.

ADVERTENCIAS GEHERRAES DE SEGURIDAD  **para herramientas eléctricas**

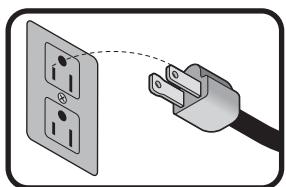


especiales para el uso en exteriores y reducen el riesgo de sufrir una descarga eléctrica.

* Se permite utilizarlo sin el y cuando los extremos de los mismos queden en contacto con un dispositivo de protección contra sobrecorriente.

dudas use el siguiente calibre más alto.

ADVERTENCIA: Al usar un cable de extensión, asegúrese de que el diámetro suficiente para transportar la corriente que consumirá su herramienta. Un cable de un diámetro inferior o casi normal podría descomponerse debajo de la tensión en la línea, teniendo como resultado la explosión de la herramienta. La longitud del cable y sobre todo el motor. La siguiente tabla muestra el tamaño correcto que debe usarse.



terra.

Algunos tipos de dispositivos utilizados para la consideración de los cambios de conexión a tierra o de un sistema de corriente eléctrica con conexión a tierra.

un elecciónista calificado o insitale un encubre polarizado. No altre la davila en favor

la davila no cabe en el encuhufe, voltelelo. Si aun asi no cabe, pongasel en contacto con la oficina de asuntos punitivos / ave prende suspenso de acuerdo a la legislacion.

ADVERTENCIAS Las herramientas de doble aislamiento y aislamiento reforzado

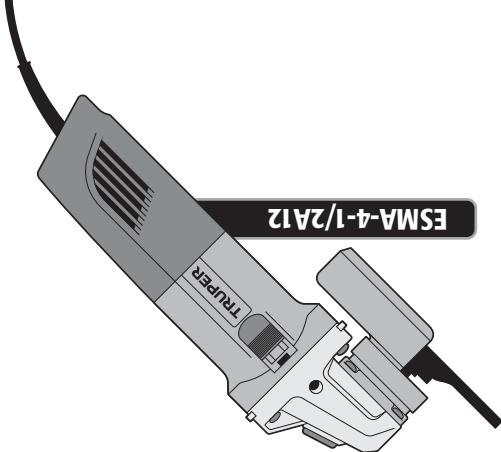
Redes de suministro eléctricos

ADVERTENCIA Antes de obtener acceso a las terminales, todos los circuitos de alimentación deberán estar des conectados.

Autonizado **TRUPER**, con el fin de evitar algún riesgo de descarga o accidente considerable. La construcción del asiladero eléctrico de esta herramienta es altamente duradera.

Si el capde de alimentación se da alta, éste debe ser removido por el fabricante o Centro de Servicio

ESMA-4-1/2A12



ESMA-4-1/2A12

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 usarla.

Guarde este instructivo para futuras referencias.

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

Nota de Garantía.

ATENCIÓN

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| 3 | Especificaciones técnicas. |

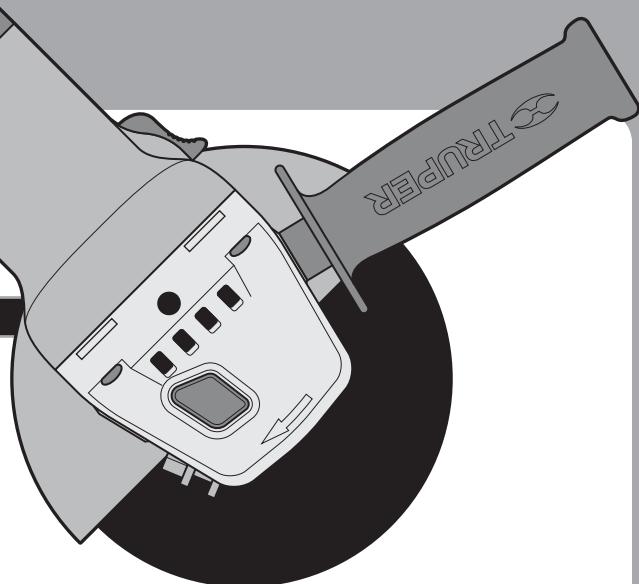


Lea este instructivo por completo
antes de usar la herramienta.

ATENCIÓN



ESMA-4-1/2A12



Código: 14013 Modello: ESMA-4-1/2A12

Este instructivo es para:

700 W Potencia: 4 1/2" Diámetro: 115 mm

Esmeriladora angular

Instructivo de

TRUPER®

ESPAÑOL
ENGLISH