

Manual

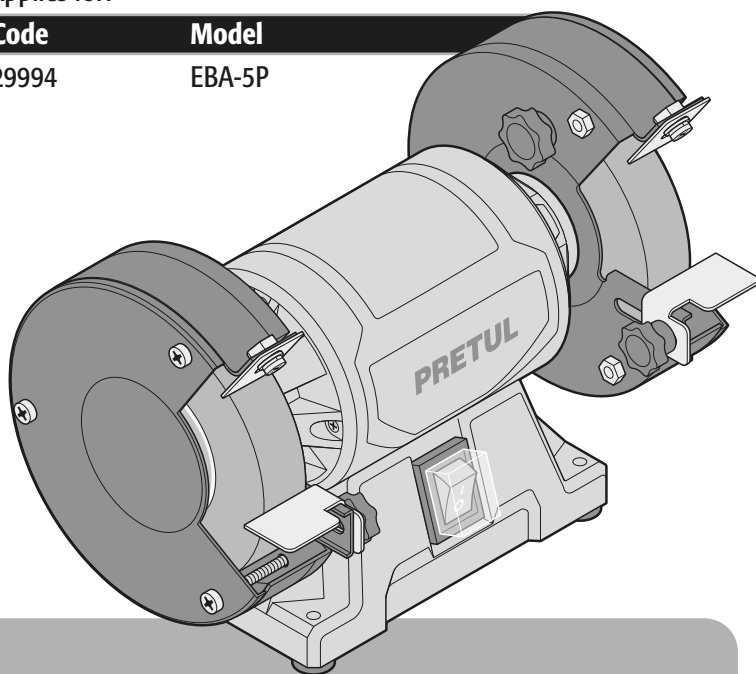
Bench grinder

5"

Grinding Wheel

Applies for:

Code	Model
29994	EBA-5P



EBA-5P



Read this manual thoroughly
before using the tool.



Technical data 3

Power requirements 3

! General safety warnings for power tools 4

! Safety warnings for bench grinders 5

Parts 6

Assembly 7

Start up 8

Maintenance 9

Notes 10

Authorized service centers 11

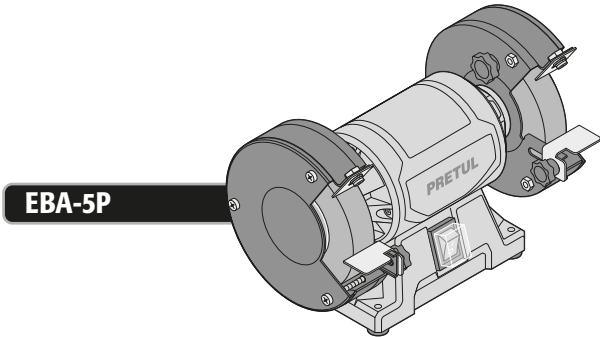
Warranty policy 12

! 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.



EBA-5P

Code	29994
Description	Bench grinder
Grinding Wheels	5"
Voltage	127 V ~
Frequency	60 Hz
Current	0.9 A
Power	1/6 Hp
Speed	3 450 RPM
Duty cycle	30 minutes work per 15 minutes idle. Maximum 6 hours per day
Conductors	18 AWG X 3 C with insulating temperature of 221 °F
Insulation	Class I

Power Cord Grips used in this product: Type "Y"
Tool Build Quality: Basic Insulation
Thermal insulation on motor winding: Class B

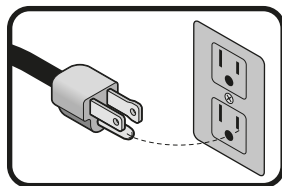
⚠ WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose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

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



Power requirements

⚠ WARNING In case of malfunctions or breakdowns, the grounding connection provides a path with minimal resistance for electrical current, reducing the risk of electric shock. This tool is equipped with an electrical cord that has a grounding conductor and a plug with a grounding connection. The plug must be connected to an outlet that is installed and grounded according to all local codes.



⚠ CAUTION When using an extension cord, make sure to use a gauge sufficient to carry the current your tool will consume. A lower gauge cable will cause voltage drops in the line, resulting in power loss and motor overheating. The following table shows the correct size to be used depending on the cable length and the amperage capacity indicated on the tool's data plate. If in doubt, use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension Gauge	
		From 6 ft to 49 ft	Higher than 49 ft
From 0 A and up to 10 A	3 (one grounded)	18 AWG	16 AWG
From 10 A and up to 13 A		16 AWG	14 AWG
From 13 A and up to 15 A		14 AWG	12 AWG
From 15 A and up to 20 A		8 AWG	6 AWG

⚠ 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.



PRETUL



General safety warning for power tools



⚠ WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause losing control.



Electrical Safety

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

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



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

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

Do not expose the tool to rain or wet conditions.

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

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

Damaged or entangled cords increase the risk of electric shock.

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

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

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

Using a GFCI reduces the risk of electric shock.

Personal safety

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

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

Use personal protective equipment. Always wear eye protection.

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



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

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

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

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

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

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

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes, jewelry or long hair may get caught in moving parts.



If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.

The correct tool delivers a better and safer job at the rate for which it was designed.



Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.

Power tools are dangerous in the hands of untrained users.



Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.

Most accidents are caused due to poor maintenance to the tools.



Keep the cutting accessories sharp and clean.

Cutting accessories in good working conditions are less likely to bind and are easier to control.

Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a TRUPER Authorized Service Center using only identical spare parts.

This will ensure that the safety of the power tool is maintained.

Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation.

Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.



This tool is in compliance with the Official Mexican Standard (NOM - Norma Oficial Mexicana).

Safety warnings for the use of bench grinders

PRETUL

Choose the right grinding wheel

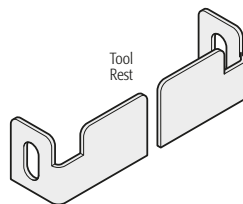
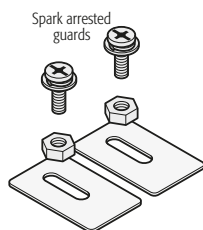
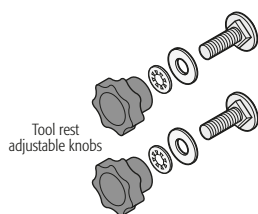
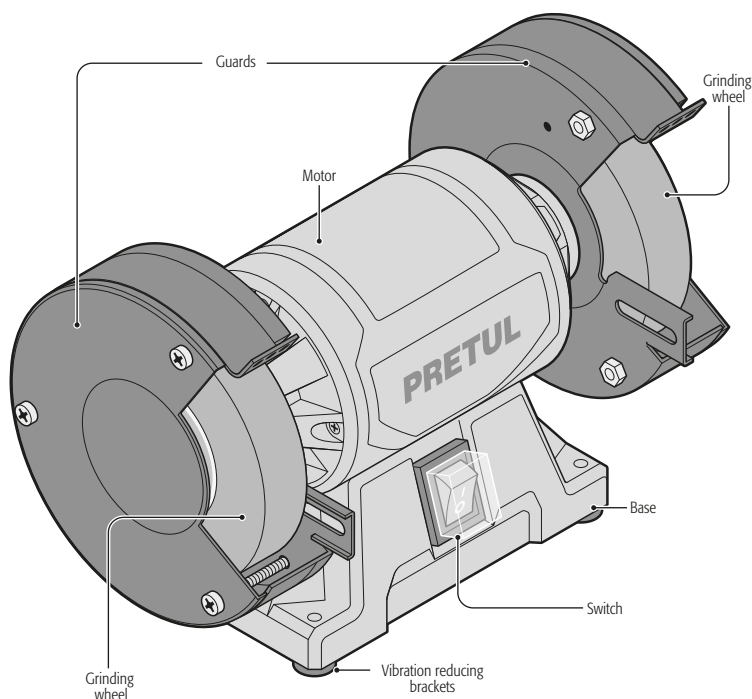
- ⚠ CAUTION** • Never try to use wheels with diameters bigger than the size appropriate for the tool.
- ⚠ WARNING** • Never use wheels that are damaged or in bad repair. Otherwise they could break and get thrown out towards the operator.
- ⚠ WARNING** • Use wheels or accessories only for 3 450 RPM speeds or higher.
- ⚠ CAUTION** • Use only wheels or accessories with an orifice matching the tool axis.
- ⚠ CAUTION** • Use only wheels or accessories specific for the material to be used.

Before operating the bench grinder

- Spare some time to assess the work to be made. Double check you take all the necessary cautions before starting to grind.
- Plan ahead the way to hold the work piece. Avoid positions which could make you lose control over your hands. If there is a sudden slip the hand could make contact with the moving disc.
- ⚠ DANGER** • Remove all the wrenches from the tool. Otherwise the wrenches may be shot with great force causing severe injuries to the operator.
- ⚠ WARNING** • Double check the disc guard is in good repair and correctly fastened. The tool shall not be used without the guard.
- ⚠ CAUTION** • Verify the disc is not broken or cracked. Hit lightly the disc with a wood hammer. The sound will tell you if it's cracked. Replace immediately a broken disc before operating the tool.
- ⚠ DANGER** • Double check the switch is OFF before connecting the tool. Otherwise it will run unexpectedly causing severe injuries.
- ⚠ CAUTION** • Turn on the tool 30 seconds before using to detect considerable vibrations or any type of unusual movement. If detected, disconnect the tool and go to a TRUPER Authorized Service Center.
- ⚠ CAUTION** • Verify the disc runs freely. Do not tighten the disc too much. Otherwise it could break.
- ⚠ WARNING** • Top work with small work pieces fix them with clamps or vices. Never use your hands to hold pieces.

While operating the bench grinder

- Keep your fingers in a safe distance away from the grinding disc.
- ⚠ CAUTION** • Do not start the tool when the disc is making contact with the work piece.
- ⚠ WARNING** • Wear safety eyeglasses, gloves and apron when operating the tool. 
- ⚠ WARNING** • Keep the cable or extension cable behind the tool to prevent accidentally damage the cable with the disc.
- ⚠ CAUTION** • Do not touch the disc or the work piece immediately after grinding. Manipulate them only when cooled down. Do not try to cool down the disc or piece using water or oil.
- ⚠ WARNING** • Verify the tool is disconnected before checking, adjusting or replacing the disc.
- ⚠ DANGER** • Sparks coming out from grinding can be dangerous if adequate measures are not taken. Double check sparks do not come into contact with skin or flammable substances.
- ⚠ DANGER** • Do not stretch over the machine to overreach. Use a safe posture and always keep good footing.
- The feed direction of the work piece shall be directed against the disc rotation.
- Prevent damages due to jamming, sliding or movement of the work piece. Make sure all the vices and locks are tight and that no part has excessive movement.
- If a small piece gets stuck inside the guard turn off the machine immediately, disconnect from the power outlet and wait until all the mobile parts stop completely before trying to remove the stuck piece.



- Mount the tool on a workbench or table by securing the base with bolts (not included).
- The designated place to fix the tool should be perfectly leveled and have enough space to handle and properly support the workpiece.

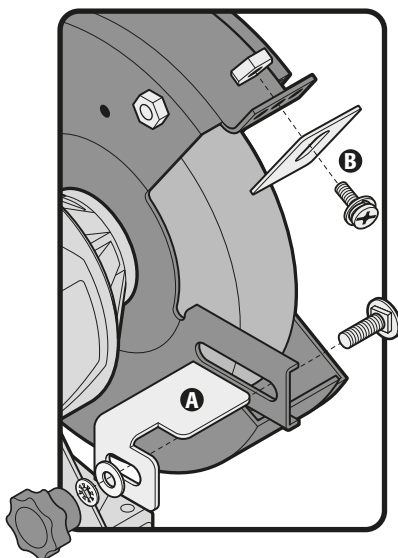
Accessory assembly

- Keep the tool turned off and disconnected to mount its accessories.
- Accessories for the tool are necessary for efficient and safe operation. Do not use the tool without all accessories properly installed.
- The tool includes accessories for both wheels (left and right). The diagram illustrates the assembly of accessories on the right side of the tool; repeat the procedure for the left side.

⚠ ATTENTION • Carefully inspect all accessories before mounting to avoid placing them on the wrong side.

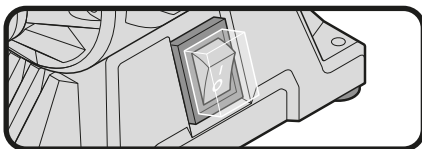
⚠ ATTENTION • For safe operation, the edge of the work supports (**A**) as well as the edges of the spark deflectors (**B**) should be adjusted to 1.5 mm (1/16") from the abrasive wheel.

- The smaller sets of screws are for mounting the spark deflectors (**B**).



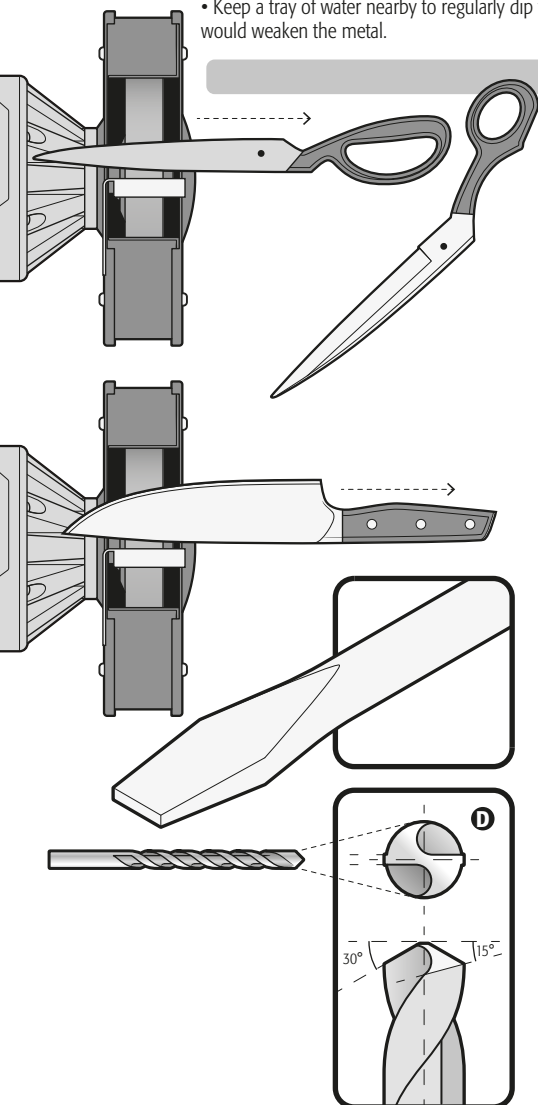
Starting Up

To start the tool, press (I) on the switch. Wait a few seconds for the motor to reach its rated speed before operating. To turn it off, press (O).



Operation

- Maintain moderate and steady pressure on the workpiece with a uniform motion to achieve smooth grinding. If you apply too much pressure, you'll overheat the motor, and the abrasive wheels will wear out faster.
- Locate the bevel angle of the piece to be sharpened and try to maintain its shape.
- The abrasive wheel should rotate against the object being sharpened.
- Keep a tray of water nearby to regularly dip the workpiece in it to prevent overheating; otherwise, it would weaken the metal.



Honing

For proper sharpening, in most cases, the angle of the tool blade to be sharpened should be 20° with respect to the abrasive wheel.

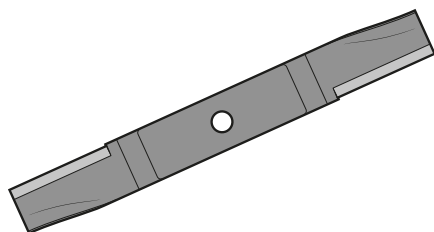
Scissors: Whenever possible, disassemble the scissors to facilitate and ensure safe honing. Focus on honing only the outer edge from the heel of the blade to the tip.

Knives: Many knives can be honed on both sides. Begin from the base of the blade and work towards the tip.

Screwdrivers: For a well-honed screwdriver, it should be perfectly rectangular, flat, and perpendicular to the blade. Both sides and faces should be flat and at right angles to each other. To hone a damaged screwdriver, place each face against the grinding wheel. Next, position the tip against the wheel to level it.

Bits: Bits are best honed using a honing template available at most hardware stores. Be careful not to damage it with the grinding wheel. Begin on one side of the tip at the existing angle. Then, rotate the bit while maintaining a consistent angle with the grinding surface. Hone only the tip. This technique requires practice. Perform some tests with the grinder off. Ensure to maintain the original angle of the tip for an effective bit. Refer to the illustration for the angles (D).

Lawn Mower Blades: These blades are honed on one side and lightly toned on the other. Check that the blade is balanced after honing to avoid damaging the lawn mower crank. Inexpensive scales are available to help determine if the blades are well balanced. Always remove the spark plug cables before servicing to prevent accidental starting of the lawnmower.



Grinding wheels replacement

- Only replace the abrasive wheels with others that have a speed rating at least as high as the NO LOAD r/min marked on the tool plate and with a hole for a 13 mm (1/2") shaft.

- The diameter of the abrasive wheel must be 125 mm (5") and its maximum thickness 16 mm (5/8").

- Check that the new wheels do not have cracks and maintain their sequence.

- Remove the guard of the abrasive wheel by loosening and removing its three screws (A).

- Use a tool to firmly hold the abrasive wheel in place to prevent it from moving (B) and loosen the shaft nut.

CAUTION The right abrasive wheel nut loosens by turning counterclockwise, and the left abrasive wheel nut (C) loosens by turning clockwise.

- Remove the outer flange (D) and the abrasive wheel to be replaced (E).

- Place the new abrasive wheel on the shaft (F) and repeat the steps described in reverse to mount it properly.

- The tool can be set with most of the polishing and buffing wheels available in the market with a maximum diameter of 125 mm (5")

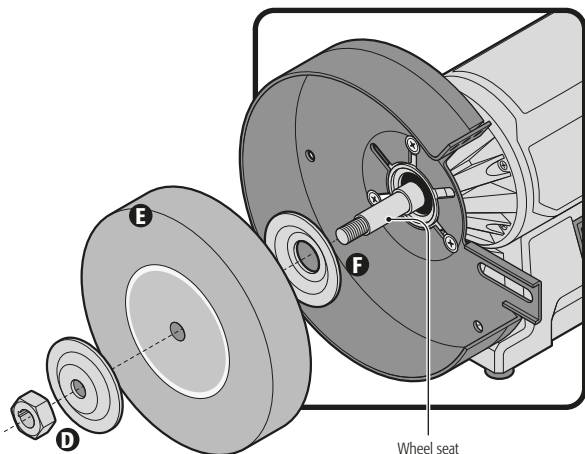
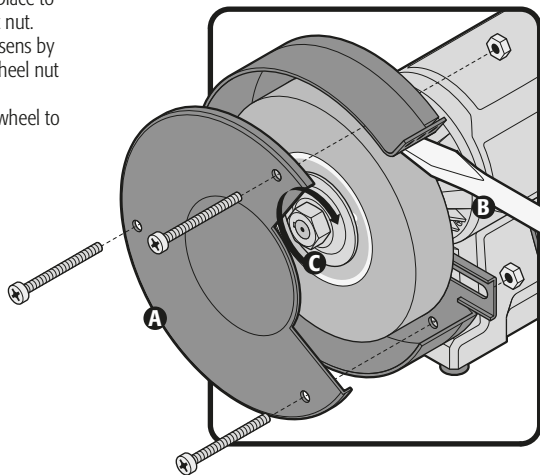
WARNING • The use of any other accessory is not recommended and can cause serious injury.

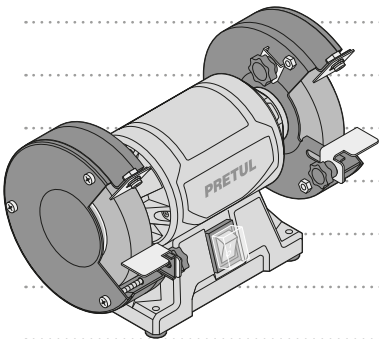
WARNING • Do not use clamps or gripping jaws on the arrow shaft to remove the stones. Any damage to the wheel seat surface can cause excessive machine vibration.

Grinding wheel care

- With use, the wheel may crack, striate, become rounded, chip, get unbalanced, or become clogged with material. If the wheels show cracks, they must be replaced immediately. Other conditions can be fixed with a honing tool (available in most hardware stores).

- New wheels may need to be honed to round them off again.





In the event of any problem contacting a TRUPER Authorized Service Center, please see our webpage WWW.TRUPER.COM to get an updated list, or call our toll-free numbers 800 690-6990 or 800 018-7873 to get information about the nearest Service Center.

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Code	Model	Brand
29994	EBA-5P	PRETUL

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Stamp of the business. Delivery date:

