TRUPER ESMA-4-1/2A9

Truper ESMA-4-1/2A9 Professional Angle Grinder User Manual

Model: ESMA-4-1/2A9 | Brand: TRUPER

Important Safety Instructions

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- Wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves.
- Ensure the workpiece is securely clamped before operation.
- Keep hands clear of rotating parts and the grinding/cutting disc.
- Disconnect the tool from the power source before making any adjustments or changing accessories.
- Do not operate the tool in damp or wet conditions.
- Use only accessories specifically designed for this angle grinder.

Product Overview

The Truper ESMA-4-1/2A9 is a professional-grade 4-1/2 inch 800 W angle grinder designed for various grinding and cutting applications on materials such as metal, brick, tile, and stone. Its ergonomic design ensures comfortable and controlled operation.



Figure 1: Truper ESMA-4-1/2A9 Professional Angle Grinder. This image shows the complete angle grinder with its main body, auxiliary handle, and a grinding disc attached.

Key Features:

- **Slim Design:** Allows for better control and maneuverability in various working positions.
- **Quick-Adjust Guard:** Enables fast and safe adjustment of the protective guard.
- **2-Position Auxiliary Handle:** Provides enhanced control and comfort during operation.
- **Spindle Lock:** Facilitates easy and quick changes of grinding or cutting accessories.
- **Continuous Use Switch:** For extended operation without holding the trigger.



Figure 2: Detailed view of the Truper ESMA-4-1/2A9 Angle Grinder highlighting its key features such as the 3-position handle, 105-degree angled handle, screw-fixed guard, slim body, and ball bearing for extended life.

Package Contents

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact your retailer immediately.



Figure 3: Illustration of the Truper ESMA-4-1/2A9 Angle Grinder and its included accessories.

- 1x 4-1/2" Abrasive Disc for metal grinding
- 1x Auxiliary Handle
- 1x Protective Guard
- 1x Two-pin Wrench
- 2x Flanges

Setup

Attaching the Auxiliary Handle:

The auxiliary handle can be attached to either side of the grinder head for left-handed or right-handed operation, providing optimal control and comfort. Screw the handle firmly into the designated threaded hole until secure.

Installing the Protective Guard:

The protective guard is essential for safety. Loosen the guard's clamping screw, position the guard over the spindle housing, and rotate it to cover the disc as much as possible, directing sparks away from you. Tighten the clamping screw securely.

Mounting the Grinding/Cutting Disc:

1. Ensure the tool is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Place the inner flange onto the spindle.
4. Position the desired 4-1/2" abrasive disc onto the inner flange, ensuring it sits flat.
5. Screw the outer flange onto the spindle.
6. Use the two-pin wrench to firmly tighten the outer flange, securing the disc. Release the spindle lock.



Figure 4: The angle grinder shown with its disc and wrench, illustrating the components involved in disc installation.

Operating Instructions

General Operation:

Before starting, ensure the power cord is in good condition and connected to a 120V power outlet. Hold the grinder firmly with both hands, using the main handle and the auxiliary handle. The tool features a switch with a continuous use function for prolonged tasks.

Grinding Applications:

For grinding, position the disc at a slight angle (typically 15-30 degrees) to the workpiece. Apply moderate pressure and move the grinder smoothly across the surface. Avoid excessive pressure, which can overload the motor and damage the disc.



Figure 5: The angle grinder in use, grinding a metal workpiece. Sparks are visible, indicating active grinding.

Cutting Applications:

When cutting, use a thin cutting disc and hold the grinder perpendicular to the workpiece. Make shallow passes, gradually deepening the cut. Do not twist or bind the disc in the cut, as this can cause kickback or disc breakage.



Figure 6: The angle grinder being used to cut a tile, demonstrating its versatility for different materials.

Materials:

This angle grinder is suitable for grinding and cutting steel, bricks, tiles, and stone. Always select the appropriate disc for the material being worked on.



Figure 7: Visual representation indicating the angle grinder's capability to grind and cut steel, bricks, tiles, and stone.

Maintenance

Cleaning:

Regularly clean the ventilation openings of the tool to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaners.

Disc Replacement:

Replace worn or damaged discs immediately. Follow the disc mounting instructions in the "Setup" section. Always use discs with the correct diameter and arbor size (4-1/2" and 5/8-11 UNC-1A spindle).

Carbon Brushes:

The carbon brushes are wear parts. If the motor performance decreases or sparks become excessive, the carbon brushes may need replacement. This should ideally be performed by a qualified service technician.

Storage:

Store the angle grinder in a dry, secure place, out of reach of children. Protect it from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	No power supply; faulty switch; worn carbon brushes.	Check power connection; ensure switch is fully engaged; inspect/replace carbon brushes (professional service recommended).
Excessive vibration.	Improperly mounted disc; damaged disc; loose auxiliary handle.	Re-mount disc correctly; replace damaged disc; tighten auxiliary handle.
Overheating.	Blocked ventilation openings; continuous heavy load.	Clean ventilation openings; allow tool to cool down; reduce load.
Reduced performance.	Worn carbon brushes; dull disc.	Inspect/replace carbon brushes; replace disc.

Specifications

Attribute	Value
Model Number	ESMA-4-1/2A9
Brand	TRUPER
Power	800 W
Voltage	120 Volts
Disc Diameter	4-1/2 inches (115 mm)
Spindle Thread	5/8-11 UNC-1A
Material	Plastic (housing)
Power Source	Electric Cord
Weight	1.5 Kilograms
Dimensions (L x W x H)	30 x 20 x 30 cm
Included Components	Angle grinder, 4-1/2" abrasive disc, auxiliary handle, protective guard, two-pin wrench, 2 flanges

Note: Specifications are subject to change without notice for product improvement.



Figure 8: Side view of the Truper ESMA-4-1/2A9 Angle Grinder, showing its compact design.



Figure 9: Front view of the Truper ESMA-4-1/2A9 Angle Grinder, highlighting the disc and guard area.

Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or visit the official TRUPER website. TRUPER products are known for their quality and reliability.
You can find more information and contact details on theTRUPER Brand Store.

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