

Capri Tools CP32505

Capri Tools CP32505 1/4 inch 1 HP Air Angle Die Grinder Instruction Manual

Model: CP32505

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Capri Tools CP32505 1/4 inch 1 HP Air Angle Die Grinder. Please read this manual thoroughly before using the tool and keep it for future reference. This air angle die grinder is designed for heavy-duty applications such as grinding, polishing, deburring, and other material removal tasks.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the air supply is disconnected before changing accessories, performing maintenance, or when the tool is not in use.
- Do not exceed the maximum operating pressure of 90 PSI.
- Keep hands and loose clothing away from rotating parts.
- Secure the workpiece before operating the grinder.
- Use only accessories rated for the speed of this tool.
- Inspect the tool and accessories for damage before each use. Do not use damaged equipment.
- Operate the tool in a well-ventilated area.

3. PRODUCT OVERVIEW AND FEATURES

The Capri Tools CP32505 Air Angle Die Grinder is engineered for performance and user comfort. Key features include:

- **Powerful 1 HP Motor:** Delivers 18,000 RPM for efficient material removal.
- **Built-in Air Regulator:** Allows precise adjustment of tool speed for various tasks.

- **Low Noise Operation:** Operates at a quiet 79 dBA with specially tuned mufflers.
- **Ultra-low Vibration:** Reduces user fatigue with only 0.45 m/s² vibration.
- **Ergonomic Contour Cushioned Grip:** Provides comfortable handling and enhanced control.
- **360-degree Swivel Rear Exhaust:** Directs exhaust away from the user and workpiece.
- **1/4 inch NPT Air Inlet:** Standard connection for pneumatic systems.
- **Lightweight Design:** Weighs only 1.8 lbs (907 g) for extended use without strain.



Figure 1: Capri Tools CP32505 Air Angle Die Grinder, showing its compact and angled design.

Ergonomic Contour Grip

Comfortable to hold ergonomic contour cushioned grip;
smooth trigger mechanism enhances control.



Figure 2: Close-up of the ergonomic contour cushioned grip for comfortable handling.

Built-in Air Regulator

Use the dial to easily and accurately fine tune the tool while you work.



Figure 3: The built-in air regulator dial for fine-tuning the tool's speed.

360° Swivel Exhaust

Rear exhaust with 360° swivel lets you vent in any direction you like.



Figure 4: The rear exhaust port, designed with a 360-degree swivel for directional airflow.

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Video 1: Product Overview of the Capri Tools Air Angle Die Grinder, demonstrating its features and use.

4. SETUP

1. Air Supply Connection:

- Ensure your air compressor is capable of providing at least 90 PSI and 4.1 CFM.
- Attach a 1/4 inch NPT quick-connect fitting (not included) to the air inlet of the die grinder.
- Connect the tool to a clean, dry, regulated air supply hose.
- It is recommended to use an in-line air filter/lubricator to ensure optimal performance and longevity.

2. Accessory Installation:

- Ensure the air supply is disconnected before installing or changing accessories.
- Insert the shank of the desired grinding bit or accessory into the collet.
- Use the provided wrenches to tighten the collet nut securely. Do not overtighten.
- Verify that the accessory is properly seated and secure before reconnecting the air supply.

5. OPERATING INSTRUCTIONS

1. Starting the Tool:

- With the air supply connected, hold the tool firmly.
- Depress the safety throttle lever and then squeeze the trigger to start the grinder.
- Release the trigger to stop the tool. The safety throttle will automatically engage.

2. Adjusting Speed:

- The built-in air regulator dial allows you to adjust the rotational speed.
- Turn the dial clockwise to increase speed and counter-clockwise to decrease speed.
- Select an appropriate speed for the material and accessory being used.

3. Grinding/Polishing:

- Apply light, even pressure to the workpiece. Avoid excessive force, which can damage the tool or accessory.
- Move the tool smoothly across the surface to achieve desired results.
- Allow the tool to reach full speed before contacting the workpiece.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your die grinder.

- **Lubrication:** Lubricate the tool daily or before each use with a few drops of pneumatic tool oil into the air inlet. This helps maintain internal components.
- **Cleaning:** Keep the tool clean and free of debris. Wipe down the exterior with a clean cloth. Ensure the exhaust port is clear.
- **Inspection:** Regularly inspect the collet, collet nut, and grinding accessories for wear or damage. Replace worn parts immediately. Check air hoses for leaks or damage.
- **Storage:** Store the tool in a dry, clean environment when not in use. Disconnect from the air supply.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start or runs slowly	Low air pressure/volume; Clogged air inlet; Lack of lubrication; Damaged motor.	Check air compressor and hose for adequate pressure and flow; Clean air inlet; Lubricate tool; Contact support for repair.
Excessive vibration	Worn or unbalanced accessory; Loose collet nut; Damaged internal components.	Replace accessory; Tighten collet nut; Contact support for inspection.
Air leaks	Loose fittings; Damaged O-rings or seals.	Tighten all connections; Replace worn seals or O-rings.
Tool gets hot	Overuse; Lack of lubrication; Restricted airflow.	Allow tool to cool; Lubricate tool; Clear exhaust port.

8. SPECIFICATIONS

Feature	Specification
Model Number	CP32505
Horsepower	1 HP
Maximum Rotational Speed	18,000 RPM
Air Inlet Size	1/4 inch NPT
Air Consumption	4.1 CFM at 90 PSI
Operating Pressure	90 PSI (recommended)
Sound Level	79 dBA
Vibration Level	0.45 m/s ²
Item Weight	907 g (1.8 lbs)
Product Dimensions	22.86 x 15.24 x 7.62 cm
Style	Angle
Color	Black
Material	Other
Included Components	Angle die grinder
Country of Origin	Taiwan

9. WARRANTY AND SUPPORT

Your Capri Tools CP32505 1/4 inch 1 HP Air Angle Die Grinder comes with a **2-Year Warranty**. This warranty covers defects in material and workmanship under normal use.

For warranty claims, technical support, or replacement parts, please contact Capri Tools customer service.

Keep your purchase receipt as proof of purchase.

For further assistance, please visit the official Capri Tools website or contact their customer support directly.