

TOTAL 40016

TOTAL P20S 20V Cordless Brushless Angle Grinder (Model 40016) Instruction Manual

Model: 40016

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your TOTAL P20S 20V Cordless Brushless Angle Grinder. Please read this manual thoroughly before using the tool and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and extend the lifespan of your angle grinder.

1.1 Intended Use

The TOTAL P20S 20V Cordless Brushless Angle Grinder is designed for cutting, grinding, and polishing various materials using appropriate 115mm diameter discs. It is suitable for both DIY and professional applications. This tool is intended for use with TOTAL P20S series 20V batteries and chargers (sold separately).

1.2 General Safety Information

Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves when operating the angle grinder. Ensure the work area is clear of obstructions and well-ventilated. Disconnect the battery before making any adjustments, changing accessories, or performing maintenance. Refer to general power tool safety guidelines for comprehensive safety information.

2. PRODUCT OVERVIEW

Familiarize yourself with the components of your TOTAL P20S 20V Cordless Brushless Angle Grinder.

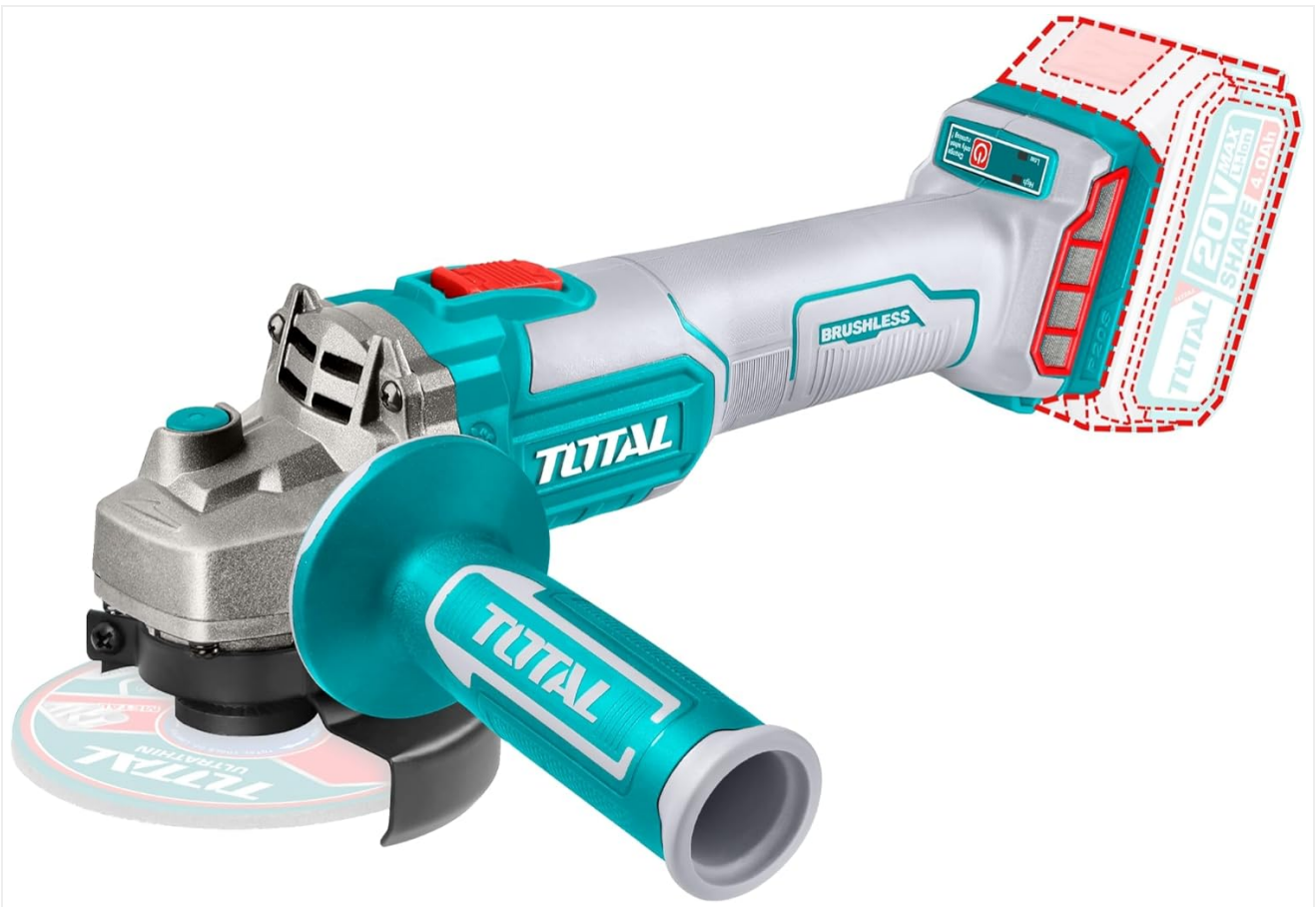


Figure 2.1: TOTAL P20S 20V Cordless Brushless Angle Grinder with auxiliary handle attached. Battery and disc are not included.



Figure 2.2: Side view highlighting the auxiliary handle, speed change switch, and 20V battery slot (battery not included).

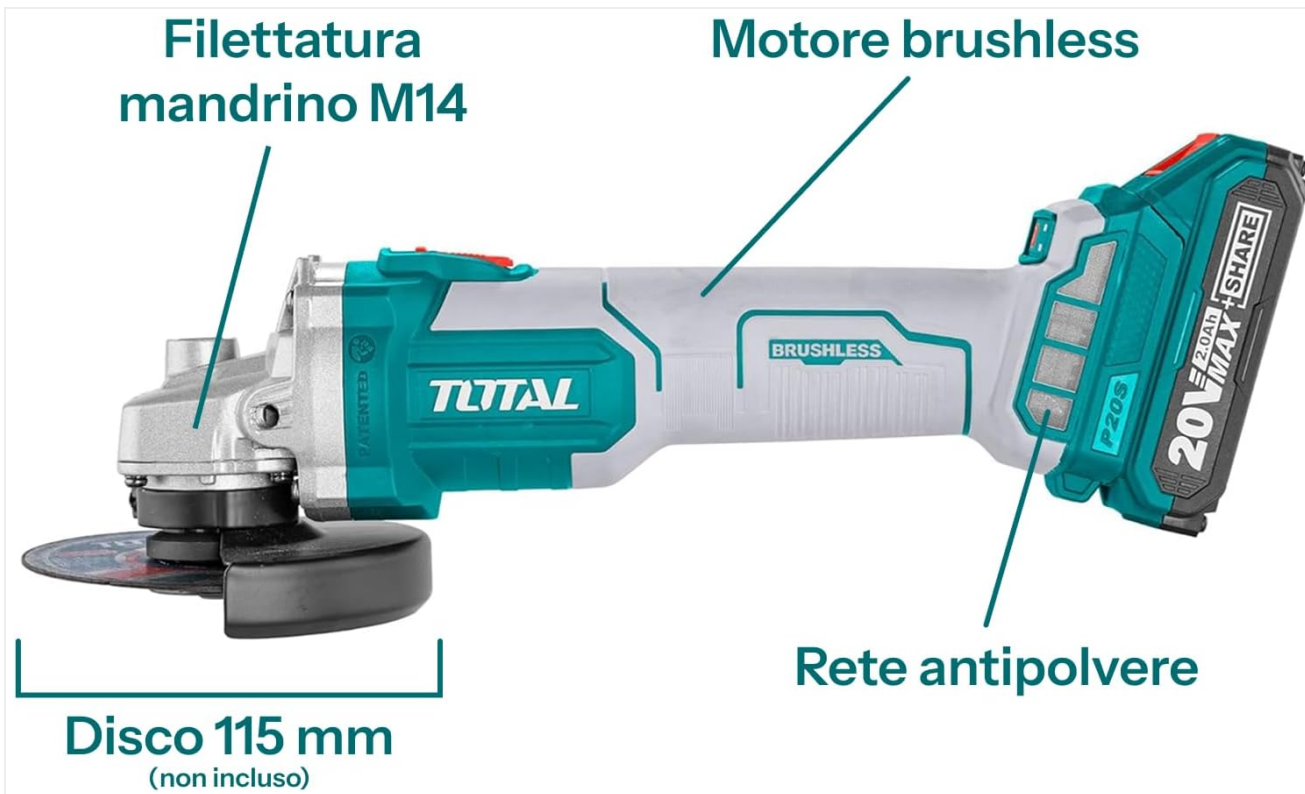


Figure 2.3: Side view highlighting the M14 spindle thread, brushless motor housing, 115mm disc compatibility (disc not included), and dust protection mesh.

Condotto di super raffreddamento



Figure 2.4: Close-up of the super cooling air vents.

2.1 Key Features

- **Cordless Design:** Powered by a 20V P20S battery (not included) for maximum portability.
- **Brushless Motor:** Provides increased efficiency, extended tool life, and improved battery durability.
- **115mm Disc Compatibility:** Designed for use with 115mm diameter cutting, grinding, or polishing discs (not included).
- **High No-Load Speed:** Up to 8000 RPM for efficient material removal.
- **Ergonomic Grip:** Auxiliary non-slip handle for comfortable and secure operation.
- **Lightweight:** Designed for extended use without excessive fatigue.

3. SETUP

3.1 Attaching the Auxiliary Handle

1. Identify the threaded holes on the grinder head.
2. Screw the auxiliary non-slip handle into the desired position (left or right side) until it is securely tightened.

3.2 Battery Installation and Removal

Note: The 20V P20S battery and charger are sold separately.

- **Installation:** Align the battery pack with the battery slot at the base of the grinder. Slide the battery into the slot until it clicks securely into place.
- **Removal:** Press the battery release button (if present) and slide the battery pack out of the tool.

3.3 Installing and Removing Grinding/Cutting Discs

Note: Grinding/cutting discs are not included with the tool.

1. Ensure the battery is removed from the tool.
2. Press and hold the spindle lock button to prevent the spindle from rotating.
3. Use the provided wrench to loosen and remove the outer flange nut.
4. Place the desired 115mm disc onto the spindle, ensuring it sits correctly on the inner flange.
5. Replace the outer flange nut and tighten it securely with the wrench while holding the spindle lock button.
6. To remove the disc, reverse these steps.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- **To Turn On:** Ensure a charged battery is installed. Press the safety lock button (if applicable) and then squeeze the trigger switch.
- **To Turn Off:** Release the trigger switch.

4.2 Basic Operation

Always hold the angle grinder firmly with both hands, using the main handle and the auxiliary handle. Allow the disc to reach full speed before contacting the workpiece. Apply light, even pressure and let the tool do the work. Avoid excessive force, which can lead to kickback or damage to the disc and tool.

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Video 4.1: A short demonstration video showcasing the assembly of the auxiliary handle, the 115mm disc compatibility, the battery slot (battery not included), the brushless motor, and the ergonomic grip of the TOTAL P20S Angle Grinder.

4.3 Cutting and Grinding Techniques

- **Cutting:** Use a thin cutting disc. Position the workpiece securely. Make shallow passes, allowing the disc to cut through the material gradually.
- **Grinding:** Use a thicker grinding disc. Hold the grinder at a slight angle (typically 15-30 degrees) to the workpiece. Move the grinder back and forth evenly across the surface.



Figure 4.2: Angle grinder in use for cutting metal.



Figure 4.3: Angle grinder in use for cutting stone.



Figure 4.4: Angle grinder in use for grinding metal.

5. MAINTENANCE

5.1 Cleaning

- Always remove the battery before cleaning.
- Use a soft brush or compressed air to clean dust and debris from the ventilation openings and around the spindle.
- Wipe the tool housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

5.2 Storage

Store the angle grinder in a clean, dry place, out of reach of children and away from direct sunlight or extreme temperatures. Ensure the battery is removed from the tool before storage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed	Ensure battery is fully charged and correctly inserted.
Reduced performance/power	Low battery charge; Worn or incorrect disc	Recharge battery; Replace disc if worn or ensure correct type for task.
Excessive vibration	Damaged or improperly installed disc; Loose components	Inspect disc for damage and ensure it is correctly installed and tightened. Check for any loose parts.
Overheating	Blocked ventilation; Prolonged heavy use	Clear ventilation openings. Allow tool to cool down during prolonged use.

7. SPECIFICATIONS

Feature	Detail
Brand	TOTAL
Model Number	40016
Voltage	20 Volts
Wattage	1492 watts
Maximum Rotational Speed	8000 RPM
Disc Diameter	115 mm
Motor Type	Brushless
Power Source	Battery Powered (P20S series)
Item Weight	1.86 Kilograms
Product Dimensions (L x W x H)	32.5 x 13 x 10.5 cm
Material	Metal Aluminum
Batteries Included	No
Auxiliary Handle	Included

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact TOTAL Tools customer service. Keep your purchase receipt as proof of purchase for warranty claims.