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› PARKSIDE PERFORMANCE® 20 V Cordless Angle Grinder PPWSFA 20-Li A1 User Manual

## PSIDE PARKSIDE PERFORMANCE® PPWSFA 20-Li A1

# PARKSIDE PERFORMANCE® 20 V Cordless Angle Grinder

Model: PPWSFA 20-Li A1

Brand: PSIDE

## 1. IMPORTANT SAFETY INSTRUCTIONS

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Always observe basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this product.

- **Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Hearing Protection:** Use hearing protection during operation.
- **Hand Protection:** Wear appropriate gloves to protect hands from sparks and debris.
- **Work Area:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Do not expose power tools to rain or wet conditions. Keep cords away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense. Do not operate while tired or under the influence of drugs, alcohol, or medication.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Disc Safety:** Ensure the disc is correctly mounted and secured. Use only discs rated for the maximum speed of the grinder. Inspect discs for damage before use.
- **Kickback:** Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm grip on the tool.

## 2. PRODUCT OVERVIEW

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The PARKSIDE PERFORMANCE 20V PPWSFA 20-Li A1 cordless angle grinder is designed for grinding, cutting, and brushing tasks. It features a brushless motor for enhanced durability and efficiency.

### 2.1 Components



Figure 2.1: Main view of the angle grinder, showing the body, disc, and battery connection area. Note that the battery is not included.



Figure 2.2: Front view illustrating the two-position anti-vibration front handle for improved control and comfort.



Figure 2.3: Side profile of the angle grinder, highlighting the compact design and flat head for access in confined spaces.

- **Main Unit:** The primary body housing the motor and controls.
- **Spindle Lock:** Button for quick and tool-free disc changes.
- **Protective Cover (2-in-1):** Adjustable cover for safety during operation.
- **Front Handle:** Two-position anti-vibration handle for ergonomic use.
- **Control Panel:** Input and control fields for speed levels, battery status, and LED indicators.
- **Dust Protection Grille:** Replaceable grille to prevent dirt ingress.
- **Tension Wrench:** Stored in the front bracket for disc changes.
- **Abrasive Discs:** Includes 1 pre-assembled coarse disc and 2 additional coarse discs (PSSP 2 A1).

## 2.2 Key Features

- **Brushless Motor:** Provides extended service life, increased power, and reduced wear.

- **PARKSIDE App Connectivity:** Allows for individual device configuration and data monitoring when using PARKSIDE X 20 V PAPS Smart batteries.
- **Flat Head Design:** Ideal for working in inaccessible areas.
- **Electronic Soft Start:** Ensures a smooth start-up, reducing jerk.
- **Quick Stop Function:** Rapidly stops the disc for increased safety.
- **Constant Power Control:** Automatically replenishes power to maintain consistent performance under load.
- **Automatic Overload Protection:** Protects the motor from damage due to excessive load.
- **Tool-Free Disc Change:** Achieved via the spindle lock and quick-change nut.

## 3. SETUP

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Before first use, ensure all components are present and undamaged. This tool requires a PARKSIDE X 20 V Team battery and charger, which are sold separately.

### 3.1 Attaching the Front Handle

1. Identify the threaded inserts on the gear housing.
2. Screw the anti-vibration front handle into the desired position (left or right) until it is securely fastened.

### 3.2 Installing/Changing Discs

Always ensure the tool is switched off and the battery is removed before changing discs.

1. Press and hold the spindle lock button to prevent the spindle from rotating.
2. Use the tension wrench (stored in the front handle) to loosen the quick-change nut by turning it counter-clockwise.
3. Remove the old disc and clean any debris from the mounting flanges.
4. Place the new disc onto the inner flange, ensuring it is centered.
5. Replace the quick-change nut and tighten it clockwise using the tension wrench while holding the spindle lock. Do not overtighten.
6. Release the spindle lock.

### 3.3 Battery Installation

This angle grinder is compatible with all batteries from the PARKSIDE X 20 V Team series. A 20V 4Ah Parkside battery is recommended for optimal performance.

1. Align the battery pack with the battery port on the tool's handle.
2. Slide the battery pack into the port until it clicks securely into place.
3. To remove, press the battery release button and slide the battery pack out.

## 4. OPERATING INSTRUCTIONS

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Familiarize yourself with the controls before beginning any work.

### 4.1 Powering On/Off

- **To Turn On:** Press and hold the safety switch, then press the main power trigger. The electronic soft start will ensure a gradual ramp-up to the selected speed.

- **To Turn Off:** Release the main power trigger. The quick stop function will rapidly halt the disc rotation.

## 4.2 Adjusting Speed

The control panel allows for 6-step speed adjustment. Refer to the tool's display for current speed settings and battery status.

- Use the speed adjustment buttons on the control panel to cycle through the available speed levels.
- Select a lower speed for delicate work or materials that are sensitive to heat, and a higher speed for aggressive material removal.

## 4.3 Using the PARKSIDE App (with Smart Batteries)

If using PARKSIDE X 20 V PAPS Smart batteries, you can connect your angle grinder to the PARKSIDE app for advanced configuration and monitoring.

1. Download the PARKSIDE app from your device's app store.
2. Ensure Bluetooth is enabled on your mobile device.
3. Follow the in-app instructions to pair your angle grinder.
4. Through the app, you can monitor battery status, adjust performance settings, and receive diagnostic information.

## 4.4 Working Techniques

- **Grinding:** Apply light, even pressure. Move the grinder smoothly across the workpiece.
- **Cutting:** Use appropriate cutting discs. Ensure the workpiece is securely clamped. Make straight, controlled cuts.
- **Brushing:** Attach a wire brush accessory. Use for cleaning, deburring, or surface preparation.
- **Constant Power Control:** The tool automatically adjusts power output to maintain consistent speed under varying loads, ensuring efficient work.

# 5. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your angle grinder. Always disconnect the battery before performing any maintenance.

## 5.1 Cleaning

- After each use, clean the tool's ventilation slots and housing with a soft brush or compressed air to remove dust and debris.
- Do not use water or chemical cleaning agents.

## 5.2 Disc Replacement

Refer to section 3.2 for detailed instructions on installing and changing discs. Replace discs when they are worn, damaged, or no longer effective.

## 5.3 Dust Protection Grille

The main handle features a replaceable dust protection grille. Periodically inspect and clean this grille. If it is damaged or excessively clogged, replace it to prevent dirt from entering the motor housing and prolonging the machine's life.

# 6. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

| Problem                                        | Possible Cause                                                              | Solution                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Tool does not start.                           | Battery not charged or not properly inserted. Safety switch not engaged.    | Ensure battery is fully charged and securely inserted. Press and hold the safety switch before pressing the trigger. |
| Reduced performance or stops during operation. | Overload protection activated. Battery charge low. Disc is dull or damaged. | Reduce pressure on the tool. Recharge or replace battery. Replace the disc.                                          |
| Excessive vibration.                           | Disc improperly mounted or damaged. Loose handle.                           | Check disc mounting and replace if damaged. Tighten the front handle.                                                |
| Tool overheats.                                | Continuous heavy use. Blocked ventilation slots.                            | Allow the tool to cool down. Clean ventilation slots.                                                                |

## 7. TECHNICAL SPECIFICATIONS

| Specification            | Value                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                    | PARKSIDE PERFORMANCE® PPWSFA 20-Li A1                                                                                                                       |
| Voltage                  | 20 V (DC)                                                                                                                                                   |
| Idle Speed               | Max. 8500 min <sup>-1</sup> (6-step adjustable)                                                                                                             |
| Disc Diameter            | Up to Ø 125 mm                                                                                                                                              |
| Spindle Thread           | M14 – SPINDLE LOCK                                                                                                                                          |
| Material                 | Plastic (Housing)                                                                                                                                           |
| Dimensions (L x W x H)   | Approx. 34 x 26.8 x 12.5 cm                                                                                                                                 |
| Weight (without battery) | Approx. 1.9 kg                                                                                                                                              |
| Included Accessories     | 1 x coarse disc (pre-assembled), 1 x front handle, 1 x tension wrench, 1 x 2-in-1 protective cover (pre-assembled), 2 x additional coarse discs (PSSP 2 A1) |
| Battery & Charger        | Not included (compatible with PARKSIDE X 20 V Team series)                                                                                                  |

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts, please refer to the documentation provided with your purchase

or contact your local PSIDE service center. Keep your proof of purchase for any warranty claims.

For further assistance, you may visit the official PSIDE website or contact their customer service department. Contact details are typically found in the product packaging or on the manufacturer's website.

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