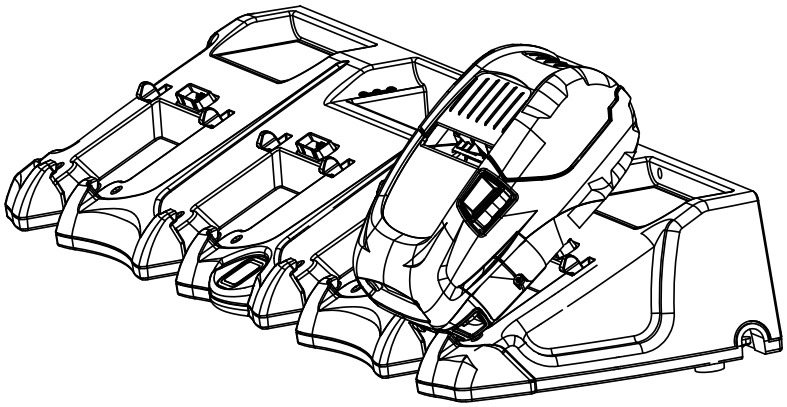

ZEBRA® ZQ500™ Series 4-Bay Power Station

Installation Guide

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Product Improvements

Since continuous product improvement is a policy of Zebra Technologies Corporation, all specifications and signs are subject to change without notice.

FCC Compliance Statement

Class B digital device. Tested to comply with FCC standards for home or office use.

WARNING: Exposure to Radio Frequency radiation with certain versions of the printer used with this product. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in the printer's User Guide. There are several radio options available with the printer used in conjunction with this product. Additional regulatory information is contained in the printer's Users Guide in sections devoted to each radio option.

Changes or modifications to this unit not expressly approved by Zebra Technologies Corporation could void the user's authority to operate this equipment.

Canadian Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

"IC:" before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

Agency Approvals and Regulatory Information

- FCC part 15 Class B
- Canadian STD ICES-003 Class B
- EN55022 Class B European Electromagnetic Radiation Standard
- EN55024 European Immunity Standard
- EN60950 Safety Standard
- VCCI (Japan)
- CE (EU/EFTA)
- SABS (South Africa)

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Document Conventions

The following conventions are used throughout this document to convey certain information:

Caution • Warns you of the potential for electrostatic discharge.

Caution • Warns you of a potential electric shock situation.

Warning • Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Before you work on any equipment, be aware of the hazards involved with the electrical circuitry and be familiar with standard practices for preventing accidents.

Caution • Warns you of a situation where excessive heat could cause a burn

Caution • Advises you that failure to take or avoid a specific action could result in physical harm to you.

Caution • Advises you that failure to take or avoid a specific action could result in physical harm to the hardware.

Important • Advises you of information that is essential to complete a task.

Note • Indicates neutral or positive information that emphasizes or supplements important points of the main text.

Installation Safety

Caution • Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

Warning • It is very important to ensure that the correct power adapter is connected to the cradle.

Note • Zebra Technologies Corporation is not liable for personal injury or damage to any equipment caused by the improper installation of this equipment to any power source.

Caution • This equipment should be installed in accordance with this installation guide and under the supervision of properly trained and qualified personnel.

Caution • Do not place coins, keys, paper clips, or other objects on the cradle or the 5-pin connectors.

Caution • Use only the approved power supply for the ZQ500 4-Bay Power Station. Use of an alternative power supply will void the product warranty and may cause product damage.

Indicator and Parts Descriptions

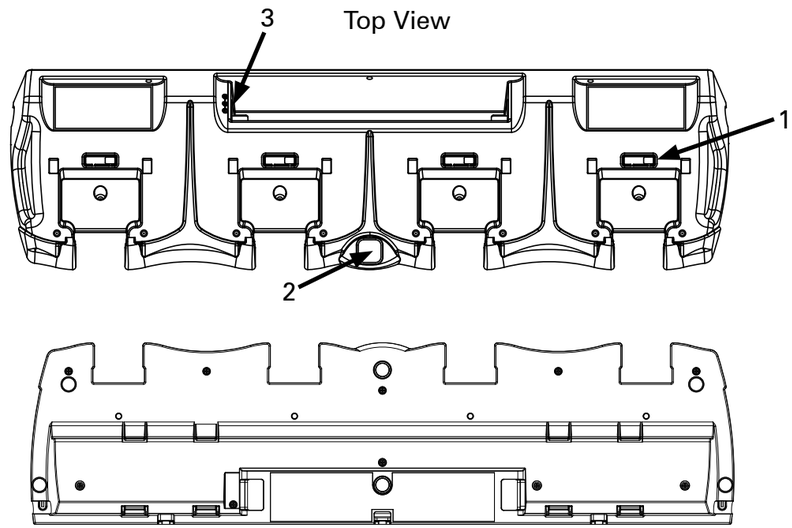
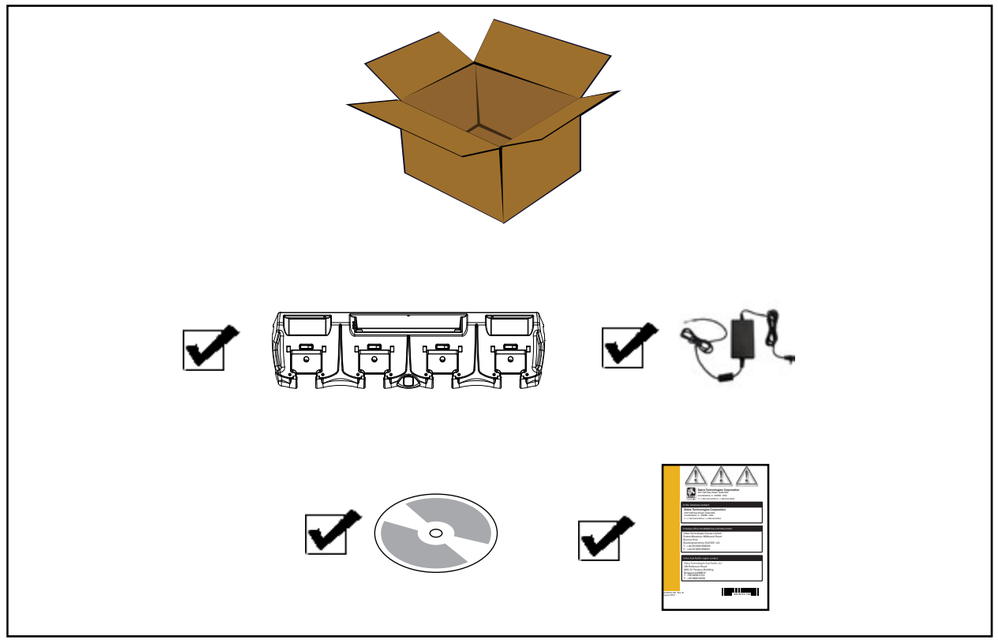


Figure 1: ZQ500 4-Bay Power Station

Descriptions

1. 5-pin docking port connector for printer (4)
2. Power indicator
3. DC power supply input jack

Figure 2: Packaging Contents



Introduction

The ZQ500 4-Bay Power Station allows a total of four (4) ZQ510 or ZQ520 printers to be docked and charged. The Power Station provides battery charging power while still maintaining all of the printer's functionality.

The Power Station has one input connection:

- A DC power supply input connects to the supplied AC/DC power adapter.

The following instructions detail the installation and use of the 4-Bay Power Station. Following these instructions closely will ensure safe and reliable performance of the printer when docked on the Power Station.

The user should always refer to the ZQ500 Series Users Guide (p/n P1064404-001) for complete information on using the printer.

Installation

The ZQ500 4-Bay Power Station allows you to dock total of four (4) ZQ500 Series printers. The installation of the Power Station includes a supplied AC/DC power adapter (p/n P1026943-1) , which provides power to run the printers and charge their batteries.

Note • Hardware used to secure the Power Station to the desktop and wall is not supplied in the installation kits.

Note • It is important to leave a free zone around the printer to allow the loading of media.

Required for Installation

- An electric drill with a 1/4" (6 mm) drill bit
- Common hand tools
- Wood screws

Option 1

When attaching the 4-Bay Power Station on the desktop or shelf, use the four (4) through holes circled below:

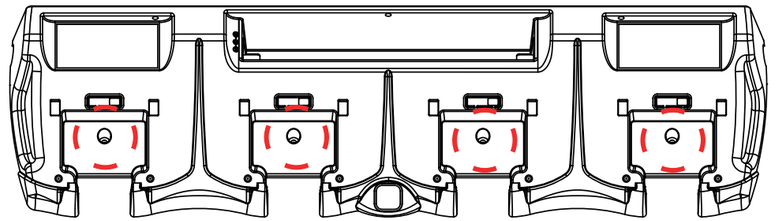


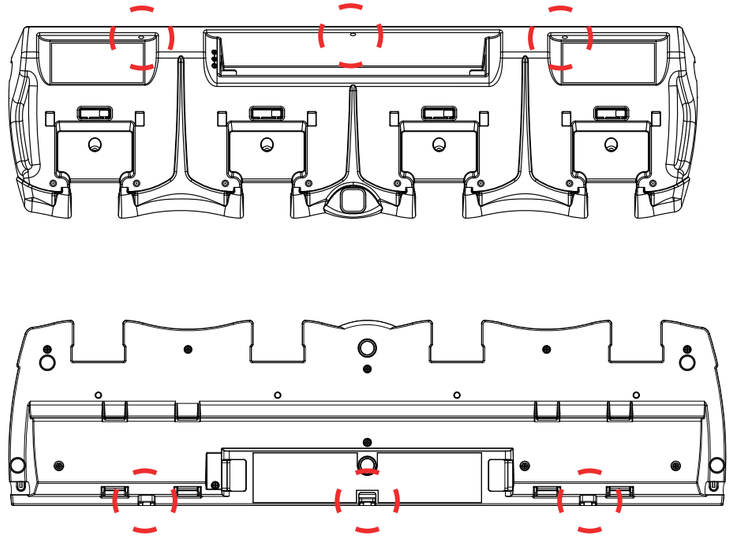
Figure 3: Desktop Mounting

Option 2

When attaching the Power Station to a wall:

1. Locate wall studs in the mounting area.
2. Drill three (3) holes using the through holes circled below (View 1).
3. Drill three (3) additional holes using the guides on the rear base of the unit circled below (View 2).
4. Use hardware listed above to secure to the wall.

Figure 4: Wall Mounting



View 1

View 2

Power Adapter Orientation

The power adapter can attach to the Power Station in two different ways.

Option 1

1. Insert the Power Adapter into the well at the top of the Power Station.
2. Connect the DC Input where indicated below.
3. Run the AC cable through the opening on the opposite end of the well.

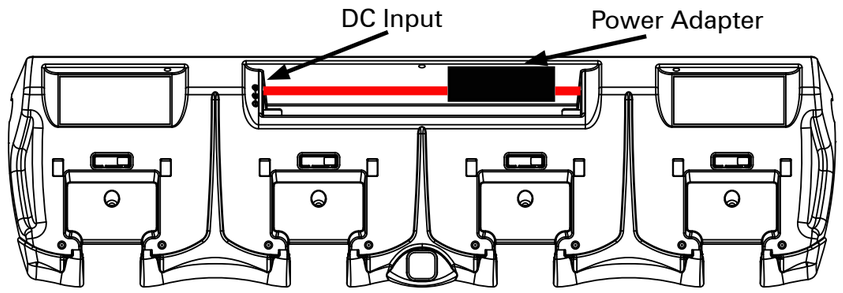


Figure 5: Power Adapter 1

Option 2

1. Lay the Power Adapter in the well at the bottom of the Power Station where shown below.
2. Attach two (2) velcro straps to the plastic posts to secure the Power Adapter to the base.
3. Connect the DC Input where indicated below.
4. Run the AC cable beneath the cable clip (where shown) to secure.

Note • The Power Adapter can also be positioned in the opposite well at the bottom of the Power Station.

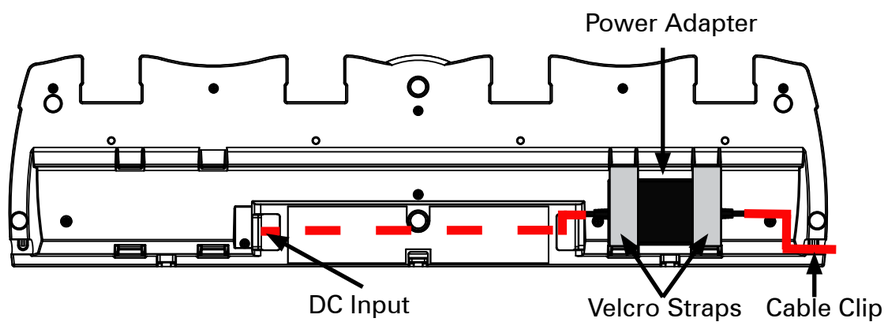


Figure 6: Power Adapter 2

Using the Printer on the Power Station

Prepare the printer for docking onto the Power Station by doing the following:

- Remove the battery from the printer.
- Use a coin or small screwdriver to remove the plastic Docking Contacts Cover on the bottom of the printer.
- Re-install the battery.

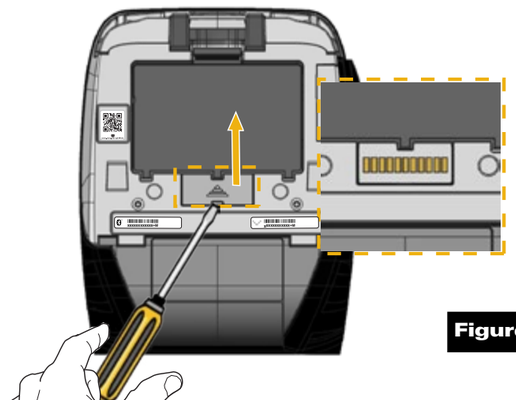


Figure 7: Docking Cover

- If necessary, clean any residue from the docking contacts using a Zebra cleaning pen or a cotton swab with 70% Isopropyl alcohol.
- Angle the front of the printer toward the two (2) guide prongs on the front of the Power Station as shown in Step 1 below. Gently slide the printer onto the Power Station.
- Press the printer down and onto the Power Station until the latches lock it firmly in place (Step 2).

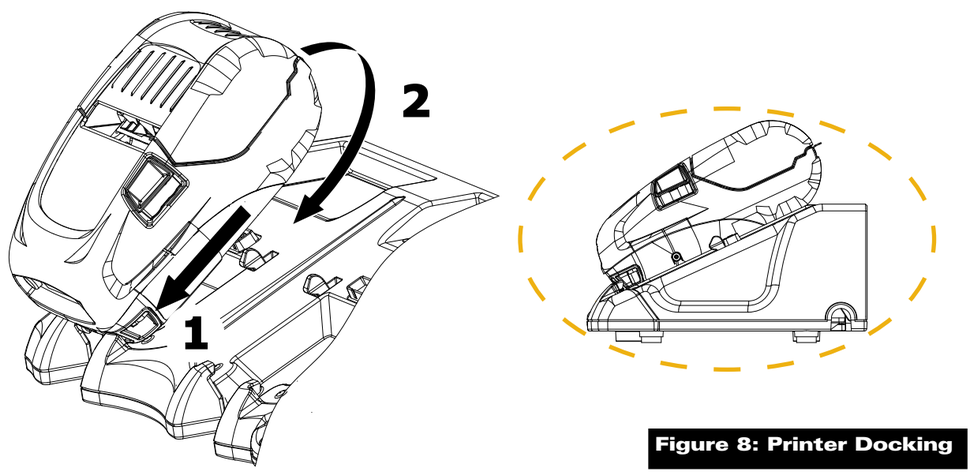


Figure 8: Printer Docking

- Verify that the charge LED indicator on the front of the printer and power indicator LED (Figure 1 #2) on the Power Station's panel are lit.
- Turn the printer on and print a configuration label to verify that the printer is functioning properly. Refer to the ZQ500 Series User Guide for instructions on printing a configuration label.

Note • A printer using an extended battery or exoskeleton can still be docked on the Power Station. However, a printer housed in a soft case cannot.

All ZQ500 Series printers will charge when docked on the Power Station. See the ZQ500 Series User Guide for instructions.

Printer Removal

Remove the printer from the Power Station by following the steps below:

1. Lift up on the back of the printer.
2. Pivot the printer up and out of the cradle.

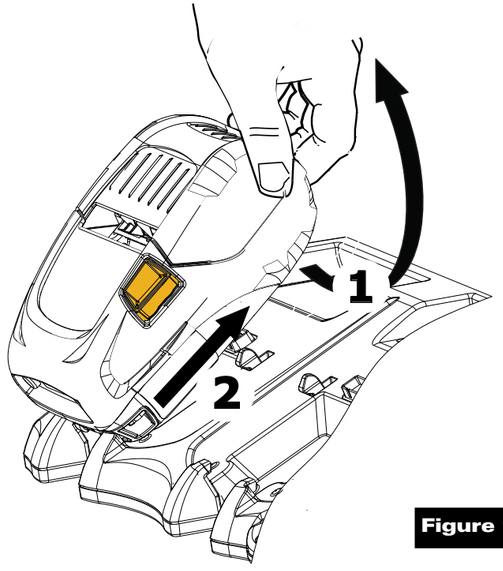


Figure 9: Printer Removal

Printer Access

The media compartment and operator controls can be reached while the printer is placed on the Power Station.

If you need to take out the printer, follow the removal procedure detailed above in the Printer Installation and Removal section.

The DC input barrel jack connection on the printer can NOT be used while the printer is in the Power Station.

Cradle Indicators

The Power Station has LED indicators on the front panel. The power LED (Figures 1 #2) is green when power is supplied to the cradle. Charging status will be displayed on the charge LED on the front of the printer.

A fault condition could be caused by the battery's internal temperature exceeding its specified limits (too hot or too cold), or could be caused by an internal short in the battery. Allow the battery to return to specified charging temperature range and try to recharge. If the fault condition persists, discontinue use of the battery.

AC Adapter

- AC Input: 100V - 240V
- DC Output: 12V

Note • If the charge LED on the printer is not illuminated, the printer is not seated properly in the Power Station. Eject and re-dock the printer and observe if the charging LED is illuminated.

Appendix A: Technical Specifications

Physical
- Height: 80 mm (3.14 in.)
- Length: 702 mm (27.6 in.)
- Width: 171 mm (6.73 in.)
- Weight (cradle only): 2.6 kg (5.73 lb.)

Environmental
- Operating Temp: -4°F (-20°C) to 104°F (40°C)
- Storage Temp: -22°F (-30°C) to 150.8°F (66°C)
- Humidity: 10% to 90% non-condensing
- Drop: 3 ft. (0.9 m) to concrete (with 4 printers)
- Drop: 4 ft (1.2 m) to concrete (without printers)
- Vibration: Per Mil-Std-810

Technical Support

U.S. Only

Zebra maintains a help line for questions involving installation and use of the 4-Bay Power Station. Please have as much information as possible regarding your particular application ready when you call to enable the technical support personnel to help you. The number in the U.S. is (800)-423-0442 and is open Monday through Friday from 8:00 am to 4:30 P.M. E.S.T.

All Others

For technical support, please contact your local Zebra sales representative listed below:

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