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http://www.zebra.com

Lincolnshire, IL U.S.A.

Zebra Technologies Corporation

ZEBRA

Zebra Technologies Corporation Australia's limited warranty above is in addition to any rights and the failure does not amount to a major failure. Zebra Technologies Corporation Australia's limited warranty above is in addition to any rights and remedies you may have under the Australian Consumer Law. If you have any queries, please call Zebra Technologies Corporation at +65 6858 0722. You may also visit our website: http://www.zebra.com for the most updated warranty terms.

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For Australia Only

http://www.zebra.com/warranty

For the complete Zebra hardware product warranty statement, go to:

Warranty

For the latest version of this guide go to: http://www.zebra.com/support.

http://www.zebra.com/support

Support. If there is a problem with the equipment, they will contact Zebra Support at: If you have a problem using the equipment, contact your facility's Technical or Systems Support at:

Service Information

Eesti: EL Klientidele: kõik tooted tuleb nende eluea lõppedes tagastada taaskasutamise eesmärgil Zebra'ile. Lisainformatsiooni saamiseks toote tagastamise kohta külastage palun aadressi: http://www.zebra.com/weee.

English: For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: http://www.zebra.com/weee.

Español: Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: http://www.zebra.com/weee.

Français: Clients de l'Union Européenne : Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : http://www.zebra.com/weee.

Italiano: per i clienti dell'UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentirne il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: http://www.zebra.com/weee.

Latviešu: ES klientiem: visi produkti pēc to kalpošanas mūža beigām ir jānogādā atpakaļ Zebra atbilstējai pārstrādei. Lai iegūtu informāciju par produktu nogādāšanu Zebra, lūdzu, skatiet: http://www.zebra.com/weee.

Lietuvių: ES vartotojams: visi gaminiai, paisaigaus jų eksploatacijos laikui, turi būti gražinti utilizuoti į kompaniją „Zebra“. Daugiau informacijos, kaip gražinti gaminį, rasite: http://www.zebra.com/weee.

Magyar: Az EU-ban vásárlóknak: Minden tönkrement termékét a Zebra vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalóként látogasson el a http://www.zebra.com/weee weboldalra.

Malti: Ghal kliġenti fl-UE: il-prodotti kollha li jkunu waslu fl-aħħar tal-hajja ta' l-użu tagħhom, iridu jiġu rritornati għand Zebra għar-riciklaġġ. Għal aktar taġġrif dwar kif għandek tirritorna l-prodott, jekk jogħgbok żur: http://www.zebra.com/weee.

Nederlands: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggezonden voor recycling. Raadpleeg http://www.zebra.com/weee voor meer informatie over het terugzenden van producten.

Polski: Klienci z obszaru Unii Europejskiej: Produkty wycofane z eksploatacji naleŹy zwrócić do firmy Zebra w celu ich utylizacji. Informacje na temat zwrotu produktów znajdują się na stronie internetowej http://www.zebra.com/weee.

Português: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: http://www.zebra.com/weee.

Românesc: Pentru clienții din UE: Toate produsele, la sfârșitul duratei lor de funcționare, trebuie returnate la Zebra pentru reciclare. Pentru informații despre returnarea produsului, accesați: http://www.zebra.com/weee.

Slovenski: Za kupce v EU: vsi izdelki se morajo po poteku življenjske dobe vrniti podjetju Zebra za reciklažo. Za informacije o vračilu izdelka obiščite: http://www.zebra.com/weee.

Slovenčina: Pre zákazníkovi z krajín EU: Všetky výrobky musia byť po uplynutí doby ich životnosti vrátené spoločnosti Zebra na recykliáciu. Blížišie informácie o vrátení výrobkov nájdete na: http://www.zebra.com/weee.

Suomi: Asiakkaat Euroopan unionin alueella: Kaikki tuotteet on palautettava kierrätettäväksi Zebra-yhtiöön, kun tuotetta ei enää käytetä. Lisätietoja tuotteen palauttamisesta on osoitteessa http://www.zebra.com/weee.

Svenska: För kunder inom EU: Alla produkter som uppnått sin livslängd måste returneras till Zebra för återvinning. Information om hur du returnerar produkten finns på http://www.zebra.com/weee.

Türkçe: AB Müşterileri için: Kullanım süresi dolan tüm ürünler geri dönüşürme için Zebra'ya iade edilmelidir. Ürünlerin nasıl iade edileceği hakkında bilgi için lütfen şu adresi ziyaret edin: http://www.zebra.com/weee.



- Improve work procedures.
- Provide a suitable working environment
- Provide adequate clearance
- Provide adjustable workstations
- Reduce or eliminate direct pressure
- Reduce or eliminate vibration
- Perform tasks at correct heights
- Keep objects that are used frequently within easy reach
- Reduce or eliminate excessive force
- Maintain a natural position
- Reduce or eliminate repetitive motion
- Adhering to your company's safety programs to prevent employee injury.

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

Health and Safety Recommendations

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CE Marking and European Economic Area (EEA)

Statement of Compliance

Zebra hereby declares that this radio equipment is in compliance with Directive 2011/65/EU and 1999/5/EC or 2014/53/EU (2014/53/EU supersedes 1999/5/EC from 13th June 2017). The full text of the EU Declaration of Conformity is available at the following internet address: http://www.zebra.com/doc.

Japan (VCCI) - Voluntary Control Council for Interference Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会（V C C I ）の基準に基づくクラスB 報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

Korean Warning Statement for Class B ITE

이 고 설 비	사 용 자 양 내 문
이 장 기 기 (가 정 용 방 송 통 신 기 기)	이 기 기 는 가 정 용 (B 급) 으 로 전 사 파 직 합 능 률 을 한 기 기 로 서 주 로 가 정 에 서 사 용 하 는 것 을 목 적 으 로 하 며 , 모 든 지 역 에 서 사 용 할 수 있 습 니 다 .



Eurasian Customs Union
Евразийский Таможенный Союз
Данный продукт соответствует требованиям знака ЕАС.

EAC
Restrict Frequency Range to: 2.450 - 2.4835 GHz.
S. Korea

당해 무선설비는 운용 중 전파혼신 가능성이 있음

당해 무선설비 는전파 혼 신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없습니다.

Taiwan
低功率電波輻射性電機管理辦法
第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

- Improve work procedures.
- Provide a suitable working environment
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- Keep objects that are used frequently within easy reach
- Reduce or eliminate excessive force
- Maintain a natural position
- Reduce or eliminate repetitive motion
- Adhering to your company's safety programs to prevent employee injury.

Use ONLY a Zebra approved UL LISTED ITE (IEC/EN 60950-1, LP/S/ELV) power supply with electrical ratings: Output 9-15 VDC, min 1.5A, with a maximum ambient temperature of 40° C. min. Use of alternative power supply will invalidate any approvals given to this unit and may be hazardous.

Power Supply

Operation of the device without regulatory approval is illegal.

Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Note 1: For 2.4GHz or 5GHz Products: Europe includes: Austria, Belgium, Bulgaria, Czech Republic, is available at: http://www.zebra.com/doc.

Please refer to the Declaration of Conformity (Doc) for details of other country markings. This Korea, Australia, and Europe .

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, Japan, China, S.

Wireless Device Country Approvals

This is an approved Bluetooth product. For more information or to view End Product Listing, please visit https://www.bluetooth.org/fp/g/listings.cfm.

Bluetooth® Wireless Technology

Declared maximum operating temperature: 50°C.

Do NOT attempt to charge damp/wet batteries. All components must be dry before connecting to an external power source.

CAUTION

Only use Zebra approved and UL listed accessories, battery packs and battery chargers.

void the user's authority to operate the equipment.

Any changes or modifications to Zebra equipment, not expressly approved by Zebra, could damage the equipment.

http://www.zebra.com/support

Local language translations are available at the following website:

All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

This guide applies to Model Number FLB3578 with FPS.

Regulatory Information

! FCC RF Exposure Guidelines

Reducing RF Influence – Use Properly

Only operate the device in accordance with the instructions supplied. The device complies with internationally recognized standards covering human exposure to electromagnetic fields from radio devices. For information on "International" human exposure to electromagnetic fields refer to the Zebra Declaration of Conformity (DoC) at <http://www.zebra.com/doc>.

Europe
To satisfy EU RF exposure requirements, a mobile transmitting device must operate with a minimum separation distance of 20 cm or more from a person's body.

Canada
Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps. To satisfy FCC RF exposure requirements, a mobile transmitting device must operate with a minimum separation distance of 20 cm or more from a person's body.

Radio Frequency Interference Requirements-FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the

instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment in an outlet on a circuit different from the receiver is connection
- Consult the dealer or an experienced radio/TV technician for help

Radio Transmitters (Part 15)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio Frequency Interference Requirements-Canada

This device Class B digital apparatus complies with Canadian ICES-003 and with this RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

Radio Frequency Interference Requirements-Brazil
Declarações Regulamentares para STB3578 BRAZILNOTA: A marca de certificação se aplica ao Equip. de Radiação Restrita, modelo STB3578. Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

Para maiores consultas sobre ANATEL consulte o site: www.anatel.gov.br.

Chile
Este equipo cumple con la Resolución No 403 de 2008, de la Subsecretaría de telecomunicaciones, relativa a radiaciones electromagnéticas.

Introduction

The FLB3578 with FIPS cordless scanner cradle acts as charger and radio communication interface for the DS3578 cordless scanner. It attaches to a mounting bracket using three isolators. The bracket is then mounted on the forklift surface.

The FLB3578 with FIPS cradle receives data from the scanner via a Bluetooth radio, and sends that data to the host through an attached cable. The cradle also charges the scanner's internal battery pack when the scanner is inserted. A portable power supply on the forklift supplies power to the cradle.

This document provides basic instructions on setting up and using the cradle. Any discussion of transmission of information refers specifically to the FLB3578 cradle.

The FLB3578 cradles can be used with the LS3578 scanners for charging and radio communication.

CAUTION LS3478 and DS3478 cordless scanners are incompatible with FLB3508/3578 cradles. LS3578 and DS3578 cordless scanners are incompatible with FLB3408/3478 cradles.

Equipment Supplied

The cradle package includes:

- Cradle
- Mounting bracket with isolators
- Three 8-32 x 1.5" Philips head screws (for attaching cradle to mounting bracket).

Accessories

The following equipment may be needed:

- Four 1/4-20 screws, minimum length 1.0" (for fastening bracket to mounting surface).

Save the shipping container for storing or shipping. Inspect all equipment for damage. If anything is damaged or missing, call an authorized Zebra Technologies Support Center immediately.

Related Documentation

LS3578 Product Reference Guide, p/n 72E-93911-xx.

LS3578 Quick Start Guide, p/n 72-93587-xx.

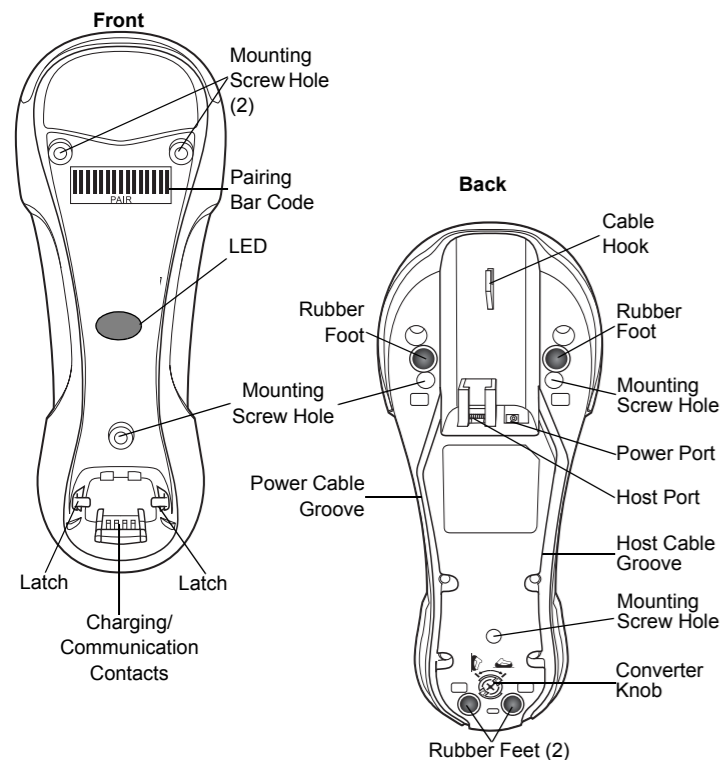
DS3578 Product Reference Guide, p/n 72E-110462-xx.

DS3578 Quick Start Guide, p/n 72-151247-xx.

STB3508/3578 Quick Reference Guide, p/n 72-150220-xx.

This documentation is available at: <http://www.zebra.com/support>.

Cradle Parts



Cradle Connections

IMPORTANT Connect the interface cable and power supply (if necessary) in the following order to ensure proper operation of the scanner and cradle.

1. Insert the interface cable into the cradle's host port.
2. Connect the forklift power supply to the cradle's power port, if applicable.
3. Optional: Thread the host cable over the cable hook and run the host and power cables into their respective cable grooves, or use cable ties to secure them to the mounting plate after it is attached to the cradle (see [Mounting the Cradle](#)).
4. Pair the scanner with the cradle by scanning the pairing bar code on the cradle.
5. If necessary, scan the appropriate host bar code (for non-autodetected interfaces). Refer to the *Product Reference Guide*.

Changing the Host Interface

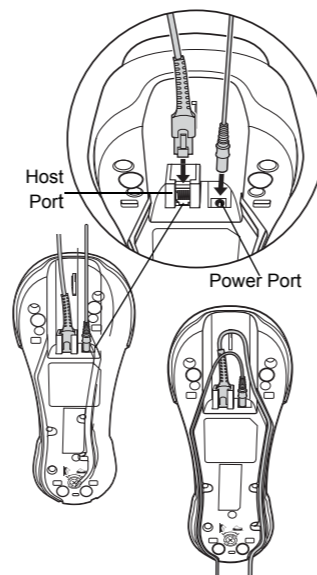
To connect to a different host, or to the same host through a different cable:

1. Unplug the power supply from the cradle, if used.
2. Unplug the interface cable from the host.
3. Connect the interface cable to the new host, or the new interface cable to the existing host.
4. Reconnect the power supply, if required.
5. If necessary, scan the appropriate host bar code (for non-autodetected interfaces). Refer to the *Product Reference Guide*.

Using a Host Interface to Supply Power

Some hosts can provide power to the cradle via the host interface, instead of an external power supply.

CAUTION If the scanner does not recognize the host, disconnect the power supply, then reconnect after connecting the host cable.



Mounting the Cradle

Horizontal Mount

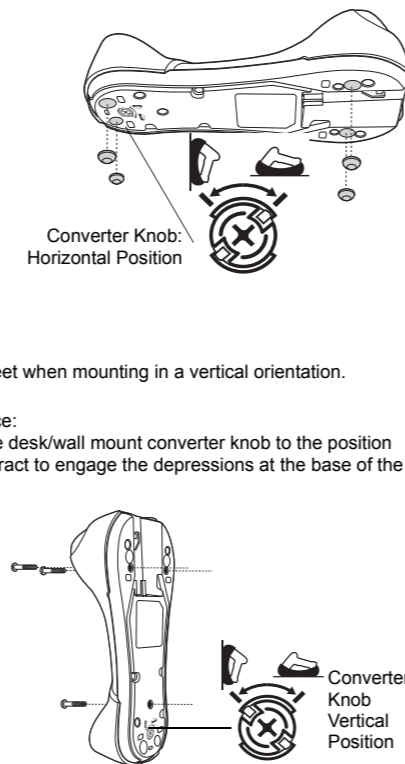
1. Ensure the desk/wall mount converter knob is in the correct position, shown at right.
2. If mounting the cradle horizontally where no fastening is necessary, peel the protective paper from the back of the rubber feet included with the cradle packaging, and attach the feet to the cradle at the indentations in the plastic. These feet provide traction and prevent surface damage.

Vertical Mount

NOTE Do not use the rubber feet when mounting in a vertical orientation.

To mount the cradle on a vertical surface:

1. Use a Philips screwdriver to turn the desk/wall mount converter knob to the position shown below. The front latches protract to engage the depressions at the base of the scanner's handle.
2. Attach the interface and power cables to the appropriate ports (see [Cradle Connections](#)).
3. Press the cables into the cable grooves.
4. Position the cradle on the mounting surface, or use the template included in this guide.
5. Mark the surface through the three holes on the bottom of the cradle, or use the mounting template to determine the location of the screw holes.
6. Pre-drill holes to accommodate three 1.5" #8 Philips head screws.
7. Attach the cradle securely to the surface.
8. Place the scanner in the cradle.



CAUTION Do not pour, spray, or spill any liquid on the cradle.

Sending Data to the Host Computer

The cradle receives data from the scanner via a wireless radio connection and transmits it to the host computer via the host cable. The scanner and cradle must be paired for successful wireless communication.

Pairing

Pairing registers a scanner to the cradle such that the scanner and cradle can exchange information. The FLB3578 operates in two modes: Point-to-Point (scanner-to-cradle) and Multipoint-to-Point (multi scanner-to-cradle). In Point-to-Point mode, the scanner is paired to the cradle either by insertion into the cradle (if pairing on insertion is enabled), or by scanning the pairing bar code. In Multipoint-to-Point mode, up to three scanners can be paired to one cradle when using a *Non-FIPS* digital scanner and cradle. When using a FIPS enabled digital scanner and a FIPS enabled cradle, up to seven digital scanners can be paired to one cradle. The multipoint bar code must be scanned to activate this feature. Refer to the *Product Reference Guide* for more information. The cradle includes pairing bar codes on both its front and back. To pair the scanner with the cradle, scan a pairing bar code. A high-low-high-low beep sequence followed by a low-high beep sequence indicates successful pairing and connection to the remote device. A long low, long high beep sequence indicates unsuccessful pairing. Refer to the *Product Reference Guide* for more information.

Lost Connection to Host

If scanned data does not transmit to the cradle's host, ensure that all cables are firmly inserted and the power supply is connected to an appropriate AC outlet, if applicable. If scanned data still does not transmit to the host, reestablish a connection with the host:

1. Disconnect the power supply from the cradle.
2. Disconnect the host interface cable from the cradle.
3. Wait three seconds.
4. Reconnect the host interface cable to the cradle.
5. Reconnect the power supply to the cradle, if required.
6. Reestablish pairing with the cradle by scanning the pairing bar code.

NOTE The FLB3578 does not always require a power supply, depending on the host interface.

Charging the Scanner Battery in the Cradle

To charge the scanner battery, place the scanner in the cradle. The battery begins charging when the scanner LED indicator starts flashing green. A complete charge of a fully discharged battery can take up to 4.5 hours using external power and up to 10 hours using the interface cable.

Scanner LED Indicators

The green LED on the scanner indicates charging activity (see the table below). If the scanner is charging in fast mode (non-bus powered mode), the green LED blinks at a fast rate. If the scanner is charging in slow mode (bus-powered mode), the LED blinks at a slow rate.

If the red LED on the scanner begins flashing, indicating a charging problem, remove the scanner from the cradle and replace the battery. If the red LED on the scanner continues flashing, contact the Zebra Technologies Support Center.

Standard Scanner Use LED Sequences	
Off	No power applied to scanner (battery is discharged or removed); scanner is in low power and ready to scan.
Green	A bar code was successfully decoded.
Red	A data transmission error; scanner malfunction; or, LS3578 cordless scanner was inserted into an STB3478 cradle.

Charging Use LED Sequences	
Green Slow Flash	The scanner charges at the slow rate (used when the cradle is powered by the host cable).
Green Fast Flash	The scanner charges at the fast rate (used when cradle is powered from an external power supply).
Red Flash	Charging problem. Refer to the <i>Product Reference Guide</i> for more information.
Red and Green Flash	Temperature fault.

Troubleshooting

If the cradle does not work after following the previous procedures:

- Check the system power.
- Check for loose cable connections.
- Check that the scanner is inserted properly in the cradle.
- Check that the host settings are correct and the cradle is connected to the appropriate port on the host.

Mounting Template

