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PL 470 Base Cradle

Preliminary

symbol®

PL 470 Base Cradle QRG

Patents
This product is covered by one or more of the following U.S. and foreign Patents:
U.S. Patent No.4,360,798; 4,369,361; 4,387,297; 4,460,120; 4,496,831; 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,321,246; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,850,078; 5,861,615; 5,874,720; 5,875,415; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250; D405,077; D406,581.
Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan).
European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713.
rev. 4/99

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Introduction

The PhaserLink PL 470 Base Cradle acts as a stand, host communication interface, and a charger for the Phaser Radio Scanner. It can sit on a desktop or be wall-mounted - whichever is more convenient.

The cradle receives data from the scanner via connectors in the bottom of the scanner and the top of the cradle. It then transmits that data to the host device through an attached cable.

The cradle also provides power for charging the scanner's battery pack (in the scanner). The cradle has a charge status indicator light.

There are two versions of the cradle available:

- PL 470 Base Cradle: the radio retail version
- PL 370 Base Cradle: the radio industrial version

This *Quick Reference Guide* provides basic instruction on the set up and use of the cradle. Unless otherwise noted, the term PhaserLink refers to all versions of the cradle.

Equipment Supplied

The equipment supplied is:

- Two Screws (for wall mounting)
- One Velcro Strip (for desk mounting)
- Four Rubber Feet (for desk mounting)
- This Guide
- Cradle

Save the shipping container for storing or shipping. Inspect all your equipment for damage. If anything is damaged or missing, call your authorized Customer Support Representative immediately.

Related Documentation

Phaser Series Scanner Product Reference Guide,
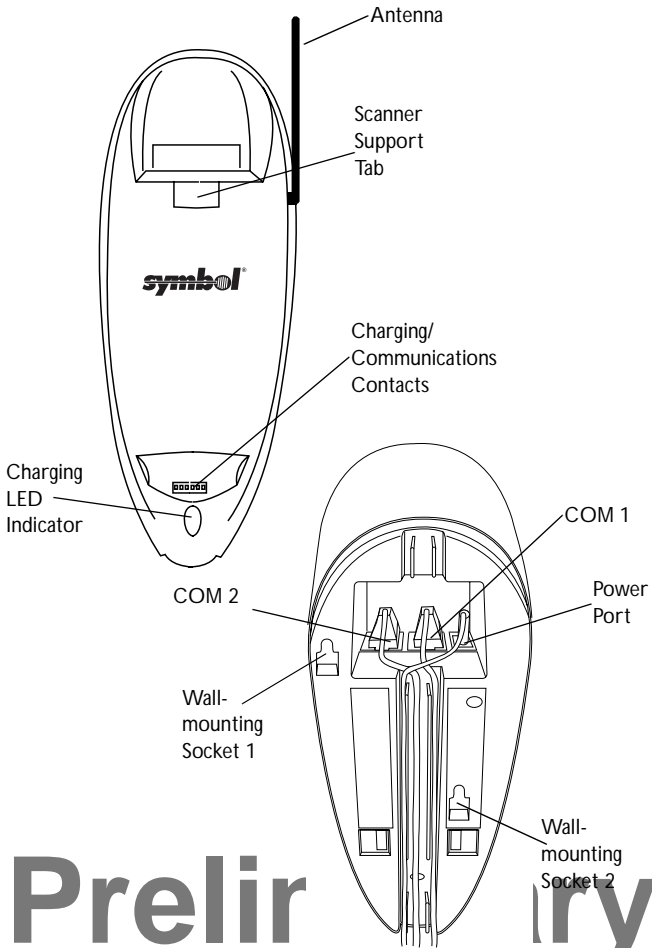p/n 70-33629-xx

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P 370/470 Radio Scanner Quick Reference Guide,
  p/n 72-xxxxx-xx

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Parts of the Cradle

This figure shows the parts of the PhaserLink Cradle:

Antenna

Scanner Support Tab

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Charging/ Communications Contacts

Charging LED Indicator

COM 1

COM 2

Power Port

Wall-mounting Socket 1

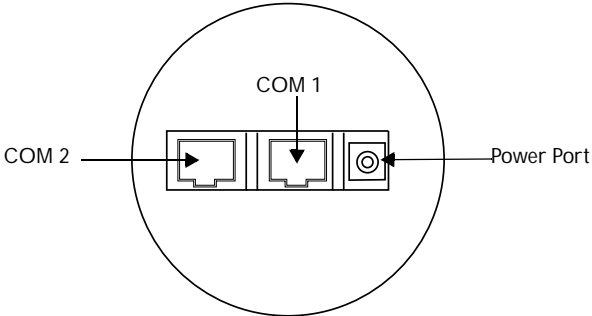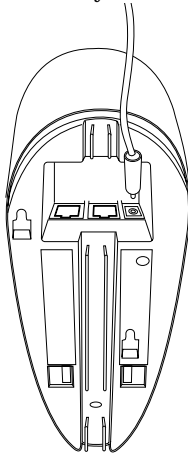Wall-mounting Socket 2

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Connecting To The Host

On the bottom of the cradle are three ports -

COM 1 connects to the host computer, COM 2 is used for daisy-chaining multiple cradles together, and the Power Port supplies power to the cradle.

1. Insert the independent power plug into the Power Port (the cradle cannot be powered by the host computer).

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2. Insert the cable from the host computer into COM 1 and the cable to the other cradles, if any, into COM 2.

Daisy-Chaining

Note: The cradle supports daisy-chaining when connected to a serial host and not when using Synapse interfaces.

To daisy-chain two or more cradles together, connect COM 1 of the first cradle to the host and COM 2 to COM 1 of the second cradle. Then connect COM 2 of the second cradle to COM 1 of the third cradle. You can daisy-chain up to 12 cradles to one host in this manner.

Wall Mounting

Before wall-mounting the cradle, the scanner support tab must be changed from the desk-mount position to the wall-mount position.

1. Lift the scanner support tab out of the top part of the cradle and replace it in the wall-mount position, as shown:

Desk Mount   Wall Mount

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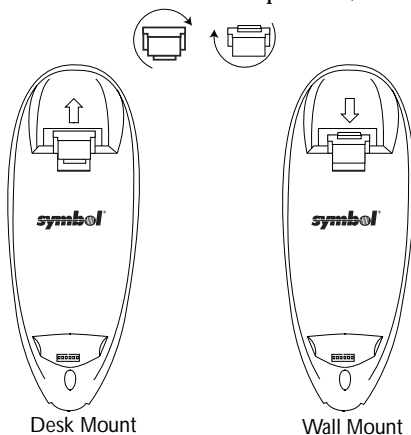
2. Seat the cables from the bottom of the cradle in the grooves along the length of it so that the bottom of the cradle is smooth and flat, as shown:
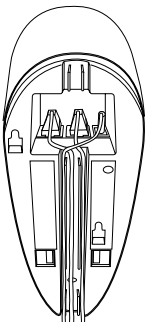
3. Secure two screws (included) to the wall. A template is provided for you on page 12.
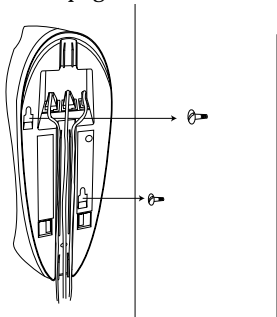
4. Fasten the screws into the wall where the cradle will hang, leaving about 1/8" (.3 cm) of the screw outside the wall so that the cradle will have something to hang on.

5. Place the cradle over the screw heads and slide down until it fits into place. Slight pressure upwards should not move the cradle.

6. Place the Phaser in the cradle.

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Inserting Phaser in the Cradle

Place the Phaser scanner in the cradle so that the top of the scanner
sits in the larger part of the cradle and the metal contacts on the
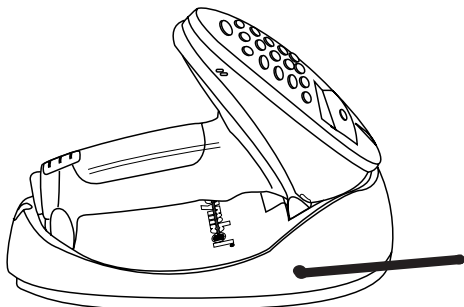bottom of the scanner touch the contacts on the cradle, like so:

Sending Data to Host Computer

To set up the PhaserLink Cradle for communications between a
Phaser and a host computer:

1. Connect the cradle to the host computer as described in
   Connecting To The Host on page 4.
2. Insert the Phaser in the cradle.
3. Start the communications program on the host computer and
   the Phaser.

Recharging the Battery in the Phaser

1. Connect the cradle to a receptacle supplying AC power of the
   proper voltage level.
2. Place the scanner in the cradle, ensuring the metal contacts on
   the bottom of the scanner touch the contacts on the cradle.
3. A complete charge takes up to 4 hours, depending upon the re-
   maining charge in the battery of the scanner.

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Indicator LED

Once the scanner is placed in the cradle, it will wait 15 minutes to start charging the battery in the scanner. The LED blinks in a specific pattern to show what the cradle is doing:

Off	The scanner is not in the cradle
Slow Blink	Scanner is in cradle, not charging
Fast Blink	Scanner is in cradle, charging
On	Scanner is in cradle, charge cycle is complete

Troubleshooting

If the cradle does not work after you've followed these operating instructions:

- Check the system power.
- Check for loose cable connections.
- Check the scanner is sitting properly in the cradle.
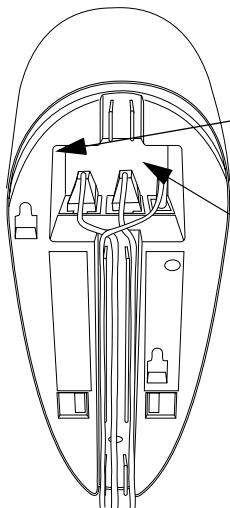
Cleaning

Wipe the cradle periodically with a lens tissue or other material suitable for cleaning optical material, such as eyeglasses.

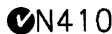*Caution:*   Do not pour, spray or spill any liquid on the cradle.

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Regulatory Information

Cradle Labeling

SYMBOL TECHNOLOGIES INC., HOLTSVILLE, N.Y, 11742

MOD: PL470-1000-WW

S/N: XXXXXXXX

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND CANADIAN RSS-210. 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. THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

FCC ID: H9P PL470   CANADA: XXXXXXX

CE   ⊘N410

UL 8897 c UL
LISTED ACCESSORY I.T.E.
CHARGING CRADLE

THIS PRODUCT COVERED BY U.S. AND FOREIGN PATENTS.
SEE QUICK REFERENCE GUIDE FOR PATENT LISTING.
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.
THIS CLASS A DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF
THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.
CET APPAREIL NUMÉRIQUE DE LA CLASSE A RESPECTE TOUTES LES
EXIGENCES DU REGLEMENT SUR LE MATÉRIEL BROUILLEUR DU CANADA
MADE IN U.S.A.

Radio Frequency Interference Requirements

This device has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

However, there is no guarantee that interference will not occur in a particular installation. If the 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:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

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- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency Interference Requirements - Canada

This Class A digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe A respecte toutes les exigences du Reglement sur le Materiél Brouilleur du Canada.

CE Marking and European Union Compliance

Products intended for sale within the European Union are marked with the CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included:

Applicable Directives

- Electromagnetic Compatibility Directive 89/336/EEC
- Low Voltage Directive 73/23/EEC

Applicable Standards

- EN 55 022 - Limits and Methods of Measurement of Radio Interference Characteristics of Information technology Equipment
- EN 50 082-1 - Electromagnetic Compatibility - Generic Immunity Standard, Part 1: Residential, commercial, Light Industry
- IEC 801.2 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment Part 2: Electrostatic Discharge Requirements
- IEC 801.3 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment Part 3: Radiated Electromagnetic Field Requirements
- IEC 801.4 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment Part 4: Electrical Fast Transients Requirements
- EN 60 950 + Amd 1 + Amd 2 - Safety of Information Technology Equipment Including Electrical Business Equipment

RF Devices

Symbol's RF products are designed to be compliant with the rules and regulations in the locations into which they are sold and will be labeled as required. The majority of Symbol's RF devices are type approved and do not require the user to obtain license or authorization before using the equipment. Any changes or modifications to Symbol Technologies equipment not expressly approved by Symbol Technologies could void the user's authority to operate the equipment.

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Service Information

Before you use the cradle , it must be configured to operate in your facility's network and run your applications.If you have a problem with running your cradle or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

1-800-653-5350

Outside North America, contact your local Symbol representative.
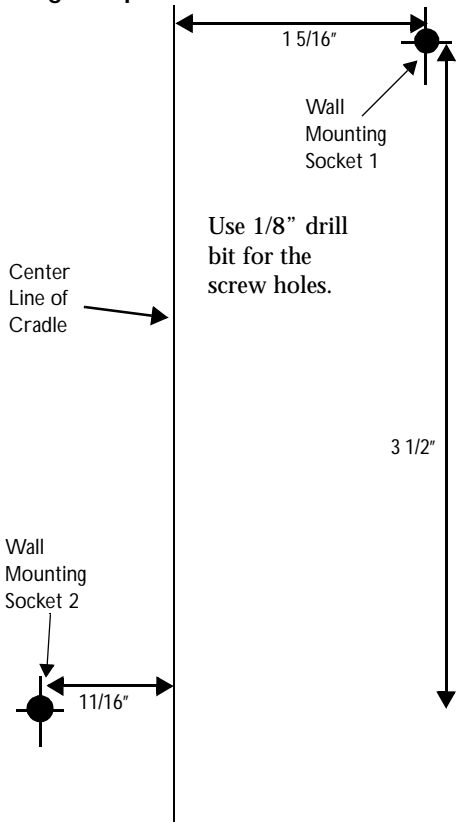
Warranty

Symbol products are warranted against defects in workmanship and materials for a period of one year from the date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

This warranty is limited to repair or replacement at Symbol's option, with reasonable promptness after being returned to Symbol by a carrier selected and paid for by the customer. These provisions do not prolong the original warranty term for any product which has been repaired or replaced by Symbol.

This warranty applies to the original owner and does not extend to any product which has been subject to misuse, neglect, accidental damage, unauthorized repair or tampering. Preventive maintenance activities are not covered by warranty.

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Wall Mounting Template:

1 5/16″

Wall
Mounting
Socket 1

Use 1/8″ drill
bit for the
screw holes.

Center
Line of
Cradle

3 1/2″

Wall
Mounting
Socket 2

11/16″

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