

A470e Transaction Printer:

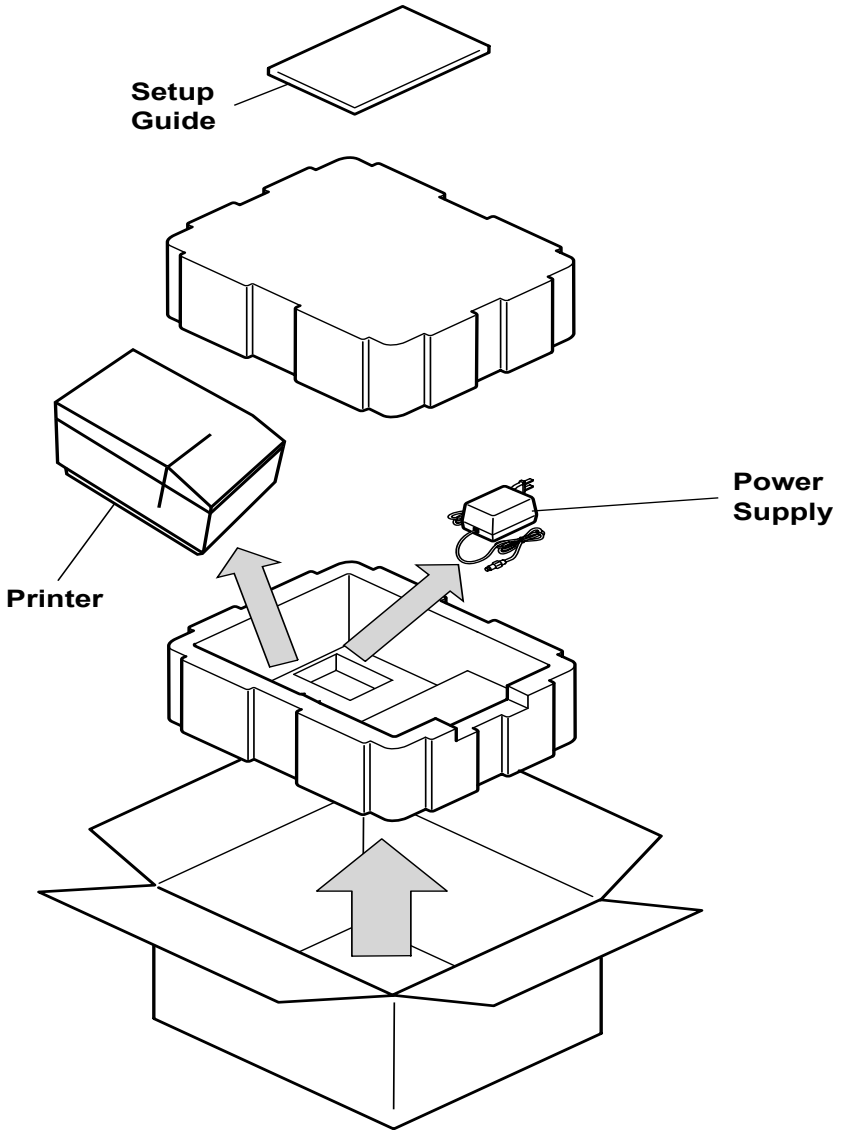
Setup Guide



1

Unpacking the Printer

Save all packing materials in case you need to repack the printer. To report a printer that was damaged during shipping, see “Contact Information” on the last page of this Guide.



To repack the printer, consult the above illustration and use the original packing materials.

2

Choosing a Location

Place the printer on a level surface on or near the host computer. Leave space to open the cover, change the paper, ribbon cassette, and insert a form from the left side.

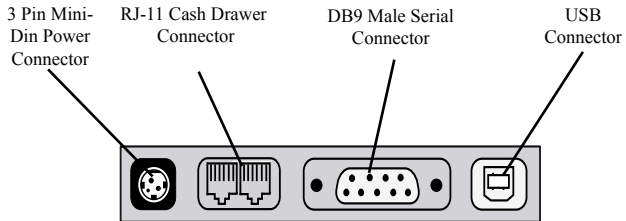
The maximum distance from the printer to the host and the power supply is: 50 feet (serial interface).

3

Connecting the Cables

Caution: *Be sure the power switch is turned off before connecting cables.*

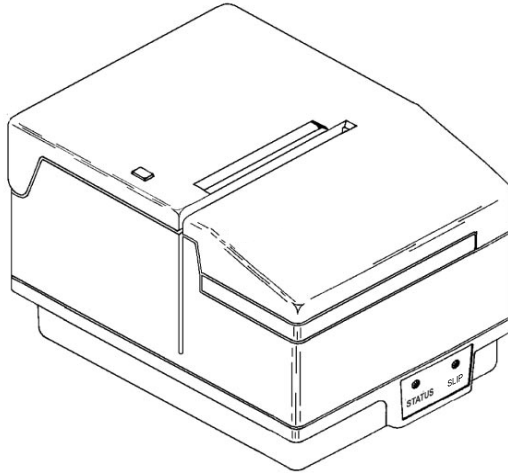
The A470e comes with two communication interfaces, RS-232 Serial or USB. Additionally the printer is configured with dual cash drawer ports and a Mini-Din power coupling. The RS-232 interface connector is a DB-9 Male connector and requires a Null Modem Serial cable for standard PC to printer connections. The USB is a standard Version 1.1 compatible interface. Two RJ-11 ports provide a unique cash drawer interface capable of running two cash drawers. All connectors are located on the back of the printer in the order listed below.



Warning: use of incompatible cables will damage the printer and will void the warranty.

When purchasing a cash drawer for this product please make sure the vendor is aware of the product specifications. This Cash Drawer pinout is unique to Pertech™ A470 / DH Technologies 4700 printers.

4 Printer Controls



The A470e printer includes the following controls :
Paper feed button used to advance paper
Power switch used to turn the printer on and off

5 Installing the Ribbon Cassette

Raise the printer cover. Leave the printer power on. Lift the old Ribbon Cartridge up and out of the printer and discard. Remove new cartridge from the plastic bag and rotate the advance tab until all slack is removed. Align the new cartridge so the exposed ribbon is between the print head guide and the first silver roller. Lower the cartridge into place. Do not turn the advance tab after the cartridge has been installed. Close the printer cover. To order new Ribbons : Call 800-800-6614.

Description	Part Number
Standard Life	
Purple	105109007A
Black	105109009A
Long Life Ribbon	
Purple	105109008A
Black	105109006A

Caution: metal surfaces of printhead may be hot - avoid contact!

6 Loading Paper

Roll paper must be 3.25 inches wide with a maximum diameter of 3.5 inches. Receipt / Journal printers can accommodate 1, 2 or 3 ply paper. Paper and other printer consumables may be purchased from Pertech™ by calling 1-800-800-6614.

Paper Ply	Part Number
One	103292016
Two	103292017
Three	103292021

To load paper the power must be turned ON. Refer to the pictorial paper loading instructions in the lid of the printer. Specific steps may vary depending on the printer configuration. Follow the instructions on this page for model 487x printers. Use the following page for 481x models.

Failure to load paper correctly may result in a paper jam. To remove paper that has jammed, it is advisable to:

- 1) Tear off any paper that fed out of the top of the mechanism
- 2) Press downward on the metal release bracket
- 3) While pulling the remaining paper out of the mechanism backwards

487x Paper Loading Instructions

1 Raise cover and remove the spent roll. Insert the new roll so the paper exits from the bottom of the roll

2 Insert the leading edge of the paper into the roller on the black block.

3 Press and hold downward on the green paper loading button...

4 ... Until six inches of paper exits from the mechanism.

5 Insert the paper through the receipt slot and lower the cover

481x paper loading instructions

1. Raise cover and remove the spent roll. Flip the green paper loading chute to the raised position.



2. Install the new roll so the paper exits from the bottom of the roll.

3. Insert the leading edge of the paper into the green loading chute.

4. Press and hold downward on the green paper loading button ...



5. ... Until one foot of paper exits from the mechanism

6. Flip the green paper loading chute to the lowered position.

7. Separate the paper plies if more than one ply is used.

8. Fold and insert the leading edge of the back ply into the rewind spool slot. Rotate as shown to wind up slack.

9. Replace the rewind spool in the printer and snap into place.

10. Insert the receipt ply through the receipt slot and lower the cover.

7 Testing and Configuring the Printer

After the printer is set up, you can run two print diagnostic tests and also choose the Setup options listed in the following table.

- 1 Press and hold the Paper Feed Button and then press the Power Switch to turn the printer on and start the first test.

Release the Paper Feed Button for the printing to begin.

The A470e completes a test of RAM and a checksum test of program memory, and then prints the configuration settings.

- 2 To change the configuration settings, press the Paper Feed Button, when prompted, to enter the Configuration Mode.
- 3 Otherwise, wait 10 seconds for the printer to resume normal operations.
- 4 In Configuration Mode, the printer prints the current setting for each option. To change an option, press the Paper Feed Button.
- 5 If you don't want to change an option, wait 5 seconds and the printer will display the next option.
- 6 After completing the Configuration Mode, you can choose to continue with the Extended Print Test.
- 7 This tests the internal memory, program checksum, printhead pin firing, vertical line alignment, character fonts, and pitches.
- 8 After completing the Extended Print Test, the printer stores the settings in non-volatile memory and begins normal operation.

Note: *Exiting setup early by turning the printer off will erase any changes made to the configuration. You must complete setup for changes to take effect.*

Option	Settings
Printer Control Language	A470 Mode ACL Mode (Advanced Command Language) DO214 ZC2979 ZC5979
Auto line feed:	CR=CR + LF (Line Feed) CR =CR (Carriage Return)
Soft Fault Recover :	Automatic Host Controlled

Font

ACL Mode: Standard , Compressed ,Expanded

Characters Per Line:

A470 Mode: 40 , 33 , 36 , 44 , 50 , 57 , 66

Intl Char Set:

USA , UK , German , French , Italian ,
Spain

Code Page:

437-USA , 850 Multilingual , 860
Portuguese , 863 Canadian-French ,
865 Nordic , Katakana

Receipt LPI: 6 , 5 , 7 , 8

Validation LPI: 6 , 5 , 7 , 8

RS232 Serial (when used)

Baud: 57.6K , 38.4K , 19.2K ,9600 , 4800 , 2400 ,
1200

Data Rate: 8-bits

Stop Bits: 1-bit

Parity: None , Even , Odd

Flow Control: Hardware, Busy Handshaking: If the
Serial interface is used the following busy
handshake options are available: Software =XON/
XOFF, Hardware =(DTR/DSR).

USB (when used)

Descriptor:

Serial Number

Model Number

Hardware

Validation Clamp:

Closed

Open

Form Insert Wait

(ACL Only):0-15 Minute

Paper Low Sensor:

Enabled

Disabled

Paper Out Sensor

Disabled

Equals Paper Low

Virtual Paper Out

2FT, 4FT, 6FT, 8FT, 10FT, 12FT

Note: Depending on the emulation you choose, some of the options may not be available.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. 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.

Information to the User

This equipment must be installed and used in strict accordance with the manufacturer's instructions. However, there is no guarantee that interference of radio communications will not occur in a particular commercial installation. If this equipment does cause interference, which can be determined by turning the equipment off and on, the user is encouraged to contact Peritech™ immediately.

Peritech™ is not responsible for any radio of television interference caused by unauthorized modification of this equipment, or the substitution of attachment or connection cables and equipment other than those specified by Peritech™. The correction of interferences caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

Important Information to the User

In order to ensure compliance with the Product Safety, FCC and CE marking requirements, you must use the power supply, power cord, and interface cable which were shipped with this product or which meet the following parameters:

Power Supply

UL Listed, Class II power supply, input rated 100-240 Vac, 1.5/0.8 A, 50/60 Hz, output rated 24 Vdc, 2.3 A, Max power 55W.

Use of this product with a power supply other than the Peritech™ power supply will require you to test this power supply and the Peritech™ printer for FCC and CE mark certification.

Interface Cable

A shielded (360 degree) interface cable must be used with this product. The shield must be connected to the frame or earth ground reference at each end of the cable.

Use of a cable other than the described here will require that you test this cable with the Peritech™ printer and your system for FCC and CE mark certification.

Power cord

A UL listed, detachable power cord must be used for this product. For applications where the power supply module may be mounted on the floor, a power cord with Type SJT marking must be used. For applications outside the US, Power cords which meet the particular country's certification and application requirements should be used.

Use of a power cord other than described here may result in a violation of safety certifications which are in force in the country of use.

Industry Canada (IC) Radio Frequency Interference Statement

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 Règlement sur le matériel brouilleur du Canada.

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Contact Information

Documentation, Warranty & Technical Support : Call: 800-800-6614

www.peritechresources.com

