# **BCom U.S. Robotics**<sup>®</sup>



Faxmodem Installation Guide For Windows<sup>®</sup>

part number 1.024.1855

# Prepare for installation.

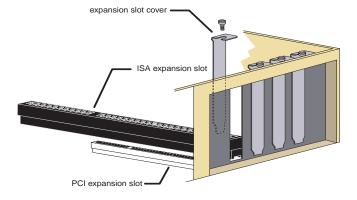
**NOTE:** Before you begin, we recommend you uninstall any other modems you have in your system. Refer to your modem's documentation for instructions. If you have an older U.S. Robotics modem, see the "Uninstalling a U.S. Robotics Modem" chapter in your manual.

Write the modem's serial number in the box below. The serial number is located on the white bar code sticker on the modem and on the modem's box.

Shut down Windows. Turn off and unplug your computer and all peripherals. Remove the computer's cover.

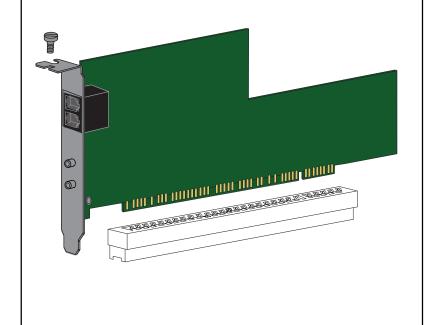
**CAUTION:** To avoid risk of electrical shock, make sure your computer and all peripheral devices are turned off and unplugged from electrical outlets

Unscrew and remove the expansion slot cover at the back of an empty PCI expansion slot. The slot cover is located on the back of the computer and covers an opening on the computer case. The opening lines up with the slot (inside the computer) which is usually white plastic lined with metal.



# Insert the modem into the empty PCI expansion slot.

Insert the modem, gold edge first, into the slot. The modem should fit snugly into the slot. The modem's metal bracket will cover the opening on the back of the computer. Secure the modem with the screw you removed in step 1. Replace the computer's cover. Reconnect and turn on all peripherals.



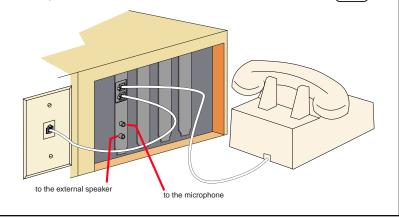
# 3

### Connect the modem to an analog phone line.

Plug one end of the provided phone cord into the jack on the modem labeled  $\lfloor \neg \rfloor$  and plug the other end into an analog phone wall jack. Plug your microphone into the modem's jack labeled , Plug your speakers into the jack labeled (-) .

WARNING: Many offices and some homes have digital phone lines. The modem will be damaged if you use a digital phone line. Call your phone company if you are unsure which type of line you have.

When you are not using the modem, you can use a telephone on the modem's phone line. Plug the telephone's cord into the modem's jack labeled  $\bigcirc$ .



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files.

Turn your computer on. When the "Add New Hardware Wizard" screen appears, insert your driver diskette into your 3.5 inch drive and click Next>. Select "Search for the best driver for your device" and click Next>. Put a check in the box next to "Floppy disk drives." If the location of your 3.5 inch drive is not a:\ change it on the bottom section of this screen. Click Finish . You will be prompted to repeat this process to install the voice driver files.

Turn your computer on. Insert your Connections CD right before you log in. Double-click the My Computer icon. Right-click the Connections icon. Click Explore. Doubleclick the folder called "005690," then double-click the folder called "005690nt." Double-click the **Setup** icon. When the "Modem Setup" screen appears, click Install. When you see the **Resources** tab, select the COM port that should be assigned to your modem. Click When the "System Settings Change" window appears, click OK to restart your computer.

# Install the modem drivers.

### If you have Windows 95:

Turn your computer on. When the "Update Device Driver Wizard" screen appears, insert your driver diskette into your 3.5 inch drive and click Next>. When you see a window indicating that the drivers have been found, click Finish If you see a screen telling you to insert the diskette which is already in the drive, click OK , type

in the location of your 3.5 inch drive (usually a:\) in the "Copying Files" screen, and click Finish . You will be prompted to repeat this process to install the voice driver

### If you have Windows 98:

### If you have Windows NT:

# Verify that the modem is properly installed.

When your desktop returns, verify that your modem is properly installed. Click 🏽 Start , point to 🀺 Settings , and click and <u>Control Panel</u>. Double-click the **Modems** icon. When the "Modems Properties" screen appears, you should see a description of your modem. Click the description of your modem and then click the Diagnostics tab. Write down the COM port to which your modem is assigned (for example, **COM1**) in the box below. Click More Info... . The modem's command set should appear in the box. Click OK then click Cancel

COM Port:

The following moderns are set up on this con	Moderna Properties
	Beneral Diversettes
Your Modem Description Here	Windows detected the following posts, and has already installed the following devices:
1	Pot Installed
Add Fignerys Pycpad	Your Modem Description Here
Dialog Philatonces	
Dialing hose Default Location	
Use Dialeg Properties to modify how your calls are	
claims	
Qualing Properties	Drivest More Info. Help
DE	
	OK Cancel

## Install the Connections CD and register your modem.

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Eject the Connections CD from your CD-ROM drive and then reinsert it into the drive. The CD's installation utility should start automatically. If it does not, click 🔀 Start and then click 🚰 🖳 . In the box, type **D:\setup.exe** and then click OK . If your CD-ROM drive uses a different letter, type that letter in place of "D".

Run	? ×
5	Type the name of a program, folder, or document, and Windows will open it for you.
<u>O</u> pen:	D:\setup.exe
	OK Cancel <u>B</u> rowse

The Setup Wizard on the CD guides you through installing the Connections program group and registering your modem.

For instructions on how to install software from the CD, see the "Software Installation" chapter in the electronic User's Guide & Reference on the CD.

For troubleshooting help or to find out how to contact technical support, see the "Support Resources" section on the other side of this map.

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<sup>\*</sup>IMPORTANT! In accordance with the ITU-T standard for 56K transmissions (V.90), this modem is capable of 56 Kbps down loads. However, the download speeds you experience may lower due to varying line conditions and other factors. Uploads from users to server equipment travel at speeds up to 31.2 Kbps. An analog phone line compatible with the V.90 standard, and an Internet provider or corporate host site compatible with the V.90 standard is necessary for these high-speed downloads.

## Troubleshooting

### Windows<sup>®</sup> 95 Users Read This First!

- Click Windows Start, point to Settings, and click Control Panel.
- 2. Double-click the **Modems** icon.
- 3. Click the **Diagnostics** tab.
- 4 Click the COM port that your modern is assigned to so that it is highlighted.

If you do not see your modem on this screen, you need to exit out of the **Modems Properties** screen by clicking **Cancel**. Click **Start**, **Shut Down**, select the **Shut down the computer?** option, and then click **Yes**. When your computer has shut down, turn it off and unplug it from its power outlet. Uninstall the modem from the computer. If it is an external, unplug its serial cable from the computer's COM port. If it is an internal, unplug the phone line and your telephone from the modem's PHONE and TELCO jacks and then remove the computer's case and remove the modem from its slot. Reinstall the modem using the instructions in the electronic Installation Guide on the included CD, this time using a different slot for your internal modem or a different COM port for your external modem.

5. Click **More Info**. You should see a list of the modem's ATI commands. Click **OK** and exit out of all open screens.

If the ATI commands do not appear, continue reading to troubleshoot your modem.

Problem: The computer or software will not recognize the modem

#### **Possible solution:**

You may have an IRQ conflict. Uninstall your modem using the instructions in the manual on your *Connections* CD. Reinstall your modem using the instructions on the front of this map.

#### **Possible solution:**

If you are using an external modem, make sure the modem is plugged in and turned on. Use only the power adapter included with the modem. The CS light on the front panel should be illuminated. (An internal modem should turn on automatically when the computer is turned on.)

#### Possible solution:

You may not be entering modem commands in the proper manner. Type in all upper case (AT) or all lower case (at).

#### Possible solution:

If you are using an external modem, the COM port may not be enabled. Refer to your computer's manual for information about enabling COM ports (usually involves altering the bios settings, motherboard jumpers, and the operating system).

#### Possible solution:

You may be using the wrong serial cable with your external faxmodem. Make sure you are using an RS-232 modem cable. You will need to make sure you are using a 25-pin male to 25-pin female if your COM port is a 25pin port, or a 25-pin male to 9-pin female if your COM port is a 9-pin port.

Problem: The modem won't go off hook to dial or doesn't answer the phone.

#### **Possible solution:**

If you have an external modem, you may be using the wrong power adapter for your modem. Use only the power adapter that came with your modem.

#### Possible solution:

You may have plugged your modem's phone cord into a digital line. Plugging your modem's phone cord into a digital phone line can damage the modem. Call your phone company if you are unsure whether or not your phone line is digital.

#### **Possible solution:**

You may have plugged your modem's phone cord into the wrong jack on the modem. Make sure the phone cord is plugged into a jack labeled with the word TELCO (marked with bound on the underside of external modems).

#### Possible solution:

You might have a bad phone cord connection to your modem. The phone cord should be plugged into the TELCO jack on the modem (marked with  $\Box_{yy}$  on externals) and the wall phone jack. The phone cord should be no longer than 12 feet in length. Use the phone cord included in your modem's box if possible.

#### **Possible solution:**

You may have devices between the modem and the phone jack. There should be no line splitters, fax machines, or other devices between the modem and the wall jack. You may have a poor line connection. Place the call again. Calls are routed differently each time. To verify a valid phone connection, enter your communication software's terminal mode and dial the 3Com BBS: 847 262 6000

If you must dial a number (such as "9") to reach an outside line, type that number right after **ATDT**.

#### **Possible solution:**

If you have voice mail, your dial tone may be altered because messages are waiting. Answer your voice mail to restore your normal dial tone. **Possible solution:** 

Your software may not have auto answer enabled. Enable the auto answer feature. In your communication software's terminal mode, type**ATSO=1** (ATS"zero"=1) and press **ENTER**.

You need to enable auto answer before every session unless you alter your software's initialization string to permanently enable auto answer.

Problem: Both modems sound like they exchange carrier signals, but fail to establish a connection.

#### **Possible solution:**

You may have a poor line connection. Place the call again. Calls are routed differently each time. To verify a valid phone connection, enter your communication software's terminal mode and dial the 3Com BBS: 847 262 6000

If you must dial a number (such as "9") to reach an outside line, type that number right after **ATDT**.

#### Problem: Your 56K modem cannot achieve a 56K Internet connection.

#### **Possible solution**

V.90 supports speeds of up to 56K. Due to phone line restrictions, you will achieve a lower connection; this does not mean you have not achieved a V.90 connection. Our research shows that the vast majority of telephone lines in North America support 56K connections. However, due to unusual or old telephone line configurations, some users will not be able to take full advantage of this technology.

It is important to remember that your line conditions may change, so you may be able to make faster connections in the future. To make sure that you can use 56K technology, perform the following tests:

- First, make sure your modem supports V.90. You can verify that your modem supports V.90 by opening a terminal application (RapidComm, HyperTerminal, ZTerm, etc.) typing ati7 and pressing ENTER. If the Options line has V.90 listed, then your modem supports 3Com 56K technology.
- 2 Make sure that the number you're dialing is an actual V.90 server. Some ISPs may have a mixture of V.90 and non-V.90 servers. You can check this by contacting your ISP and asking them about 56K technology or V.90 availability.
- 3 If it is a V.90 server, you may want to try calling it a few more times. Remember, the phone company routes each call in a different fashion each time you place a call. For testing purposes, you may want to call into the 3Com BBS at 847-262-6000, which has V.90 servers attached to it.
- 4 If you are able to connect at V.90 speeds on the 3Com BBS, there may be something between you and your ISP that is preventing a V.90 connection from being negotiated. You may want to contact your ISP and see if they have received similar reports from other customers.
- 5 If you do not make a V.90 connection to our BBS, your line might not be capable of supporting V.90 speeds. If that's the case, then see the next item in this list.
- 6 If you are experiencing consistent problems with V.90 connections (i.e., not making a high speed connection, abrupt disconnections, etc.), you can call 3Com Technical Support for U.S. Robotics modems at 847 262 5151.

#### Problem: Errors are constantly occurring in your V.17 fax transmisions

#### **Possible solution:**

Your modem initialization string may be insufficient for fax transmissions. In terminal mode, type the following initialization string: **AT&F&H3&I2&R2S7=90** and then press **ENTER**.

#### **Possible solution:**

Your baud rate may be set too high. In your communications software, lower the baud rate to 9600, 7200, or 4800.

#### **Possible solution:**

You may be trying to fax a compressed file. Decompress the file using the application with which it was compressed. Then open it with the application with which it was created. Select your fax software as the printer and then print the file.

#### Problem: Your communications software fails to initialize the modem.

#### **Possible solution:**

Your software's port settings may be incorrect. Make sure the software's port settings match those for your modem.

If you have an older version of RapidComm on your system, you must uninstall the older version before installing the most recent version (contained on the Connections CD-ROM that comes with your new modem). Otherwise, system conflicts may hamper RapidComm's ability to work properly.

#### **Possible solution:**

If you are using an external modem, make sure the modem is plugged in and turned on. Use only the power adapter included with the modem. The CS light on the front panel should be illuminated. (An internal modem should turn on automatically when the computer is turned on.)

#### **Possible solution:**

If you have a Winmodem, check with the software's manufacturer to determine whether or not the software is fully Windows-based. Some software runs in Windows but has DOS components. Such software will not work with Winmodems.

Problem: Plug and Play does not detect your modem. You've installed the modem and Windows has restarted, but you see only your normal desktop. You do not see any screens indicating new hardware has been detected.

#### **Possible solution:**

- The Plug and Play installation was not successful. Try the following: 1 Click Windows 95 **Start** and click **Shut Down**.
  - 2 When asked if you wish to shut down your computer,
  - click Yes.When Windows 95 indicates that it is safe to turn off your computer, turn it off.
  - Wait or computer, turning the computer
  - 4 Wait 15 seconds before turning the computer back on.
    5 Windows 95 may detect your modem upon this restart even if it did not detect the modem during the initial installation.
    - If you see screens indicating Windows 95 had detected new hardware, follow the on-screen instruction to install the modem.
      If you do not see the new hardware screens, continue with step 6.
  - 6. Click Windows 95 Start.
  - 7. Point to **Settings**.
  - 8. Click **Control Panel**.
  - 9. Double-click the **System** icon.
  - **10.** Click the **Device Manager** tab on the "System Properties" screen.
  - Look for "Other Devices" or "Unknown Devices" in the list that appears:
    If you do not see either of these options in the list, please see the "Support Resources" section below.
  - If you do see one of these options, double-click the option and continue with step 12.
    12. If the description that appears matches the modern you
  - are trying to install, click the **Remove** button. If it does not, please see the "Support Resources" section below.
  - 13. Click **OK** when Windows asks if you wish to remove the device.
  - 14. Restart the computer and continue with the on-screen instructions. If the computer does not detect the modem after this second restart, please see the "Support Resources" section below for additional help.

#### **Support Resources**

If you have not fixed a problem after trying the suggestions in the "Troubleshooting" section, you can receive additional help via one of these convenient resources:

#### The 3Com BBS

The BBS gives you access to customer and technical support documents and hundreds of helpful files and tips to help simplify using your modem. To connect to the 3Com Bulletin Board System, follow these steps:

- 1 Start your fax/data communications software. The software settings for the BBS are:
  - ANSI terminal emulation
- Data Bits: 8
- Parity: None
- Stop Bits: 1

blank e-mail to

as the subject.

on to www.usr.com/home/online

support@usr.com

document's number

- 2 Put the software in terminal mode.
- **3** Type the BBS's number: 847 262 6000
- If this is your first time connecting to our BBS, you will be asked to enter your name, create a password of your choice, and to fill out a questionnaire.

When you are ready to leave the BBS, type **G** (for "good-bye") from the main menu.

#### Internet FTP

Provides a free library containing the same files as the BBS site. FTP to **ftp.usr.com**.

#### **Internet on Demand**

World Wide Web

CompuServe

**America Online** 

Provides automatic technical support through a library containing product information, quick reference cards, and installation help.

• To obtain an index of available documents, send a

• To have a document e-mailed to you, send the

Provides the same information as the Internet on Demand listing. Log

Provides the same information as the Internet FTP site.

• Go to this address: **GO THREECOM** 

Address private messages to **76711.707**

Provides resources such as file libraries, message boards, online customer support, and product announcements. In the Keyword field, type 3COM.

#### Are You Still Having Problems?

#### 1. Call the Dealer Who Sold You the Modem

The dealer may be able to troubleshoot the problem over the phone or may request that you bring the modem back to the store for service.

### 2. Call 3Com's Technical Support Department

847 262 5151

#### **Manufacturer's Declaration of Conformity**

3Com Corporation

3800 Golf Road Rolling Meadows, Illinois 60008

U.S.A.

declares that this product conforms to the FCC's specifications: *Part 15:* 

Operation is subject to the following two conditions:

- (1) this device may not cause harmful electromagnetic interference, and
- (2) this device must accept any interference received including interference that may cause undesired operations.

This equipment uses the following USOC jacks: RJ-11C.

#### Caution to the User

The user is cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Part 68:

This equipment complies with FCC Rules Part 68. Located on the bottom of the modem is the FCC Registration Number and Ringer Equivalence Number (REN). You must provide this information to the telephone company if requested.

The REN is used to determine the number of devices you may legally connect to your telephone line. In most areas, the sum of the REN of all devices connected to one line must not exceed five (5.0). You should contact your telephone company to determine the maximum REN for your calling area.

This equipment uses the following USOC jacks: RJ11C.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

An FCC compliant telephone cord and modular plug are provided with this equipment, which is designed to connect to the telephone network or premises wiring using a Part 68 compliant compatible jack. See installation instructions for details.

#### ULListing/CULListing

This information technology equipment is UL-Listed and CUL-Listed for use with UL-Listed personal computers that have installation instructions detailing user installation of card cage accessories.

#### Radio and Television Interference

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. The modem has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause interference to radio or television reception, which you can determine by monitoring reception when the modem is installed and when it is removed from the computer, try to correct the problem with one or more of the following measures:

• Reorient the receiving antenna (for televisions with antenna

- reception only) or cable input device.
- Relocate the computer with respect to the receiver.
- Relocate the computer and/or the receiver so that they are on separate branch circuits.

If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the following booklet, prepared by the Federal Communications Commission, helpful:

How to Identify and Resolve Radio-TV Interference Problems Stock No. 004-000-0345-4 U.S. Government Printing Office

#### Washington, DC 20402

In accordance with Part 15 of the FCC rules, the user is cautioned that any changes or modifications to the equipment described in this manual that are not expressly approved by 3Com could void the user's authority to operate the equipment.

3Com Corporation Limited Warranty

3Com warrants this hardware product to be free from defects in workmanship and materials, under normal use and service, for the lifetime of the product from the date of purchase from 3Com or its authorized reseller. 3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, 3Com may, in its sole discretion, refund to Customer the purchase price paid for the defective products that are replaced will become the property of 3Com. Replacement products may be new or reconditioned. 3Com warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial warranty period, whichever is longer.

**YEAR 2000 WARRANTY:** In addition to the Hardware Warranty stated above, 3Com warrants that each product sold or licensed to Customer on and after January 1, 1998 that is date sensitive will continue performing properly with regard to such date data on and after January 1, 2000, provided that all other products used by Customer in connection or combination with the 3Com product, including hardware, software, and firmware, accurately exchange date data with the 3Com product, with the exception of those products identified at 3Com's Web site,

#### http://www.3com.com/products/yr2000.html

as not meeting this standard. If it appears that any product that is stated to meet this standard does not perform properly with regard to such date data on and after January 1, 2000, and Customer notifies 3Com before the later of April 1, 2000, or ninety (90) days after purchase of the product from 3Com or its authorized reseller, 3Com shall, at its option and expense, provide a software update which would effect the proper performance of such product, repair such product, deliver to Customer an equivalent product to replace such product, or if none of the foregoing is feasible, refund to Customer the purchase price paid for such product.

Any software update or replaced or repaired product will carry a Year 2000 Warranty for ninety (90) days after purchase or until April 1, 2000, whichever is later.

**OBTAINING WARRANTY SERVICE:** Customer must contact a 3Com Corporate Service Center or an Authorized 3Com Service Center within the applicable warranty period to obtain warranty service authorization. Dated proof of purchase from 3Com or its authorized reseller may be required. Products returned to 3Com's Corporate Service Center must be pre-authorized by 3Com with a Service Repair Order (SRO) number marked on the outside of the package, and sent prepaid and packaged appropriately for safe shipment, and it is recommended that they be insured or sent by a method that provides for tracking of the package. The repaired or replaced item will be shipped to Customer, at 3Com's expense, not later than thirty (30) days after 3Com receives the defective product. Return the product to:

#### 3Com Client SRO# \_\_\_\_\_ 1800 W. Central Ave.

Mt. Prospect, IL 60056

3Com shall not be responsible for any software, firmware, information, or memory data of Customer contained in, stored on, or integrated with any products returned to 3Com for repair, whether under warranty or not.

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**GOVERNING LAW:** This Limited Warranty shall be governed by the laws of the State of California, U.S.A. excluding its conflicts of laws principles and excluding the United Nations Convention on Contracts for the International Sale of Goods.

For customer support on the enclosed Microsoft® products (Age of Empires™, Money 99™, or Encarta 99®) within this box please call 888 410 2291 between the hours of 9:00 am - 6:00 pm Central Standard Time.