

2-INSTALLING A DATA/FAX MODEM INTO A "WINDOWS.." OR "LINUX" COMPUTER

by Francis Chao
fchao2@yahoo.com



SUMMARY

Data/fax modems are no longer bundled into computers so you will have to procure and install one, if you want to fax using the "Windows Fax and Scan", "FaxTalk", "efax-gtk" or similar apps for sending and receiving faxes, instead of using a fax machine.

TOPICS

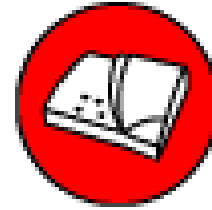
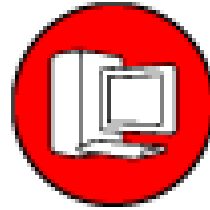
- Data/Fax Modems--
Form Factors and Architecture
- Recommended Data/Fax
Modems
- Big Steps for Installing a
Data/Fax Modem
- Small Steps for Installing a
Data/Fax Modem

DATA/FAX MODEMS

- Form factors:
 - Modem that is integral on the motherboard of a laptop or desktop computer
 - PCI card (older desktop computers)
 - PCIe card (newer desktop computers)
 - USB modem (both laptops and desktops)

DATA/FAX MODEMS (continued)

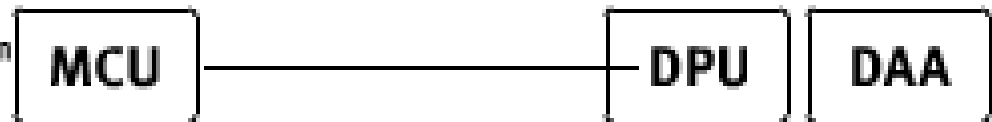
- Architecture Options:
 - Controller-based modems
 - Controllerless modems or Winmodems
 - Softmodems
(See <http://www.usr.com/education/modem2.asp>)



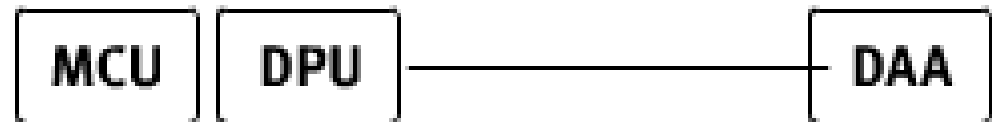
Controller-based



Controllerless/Winmodem™



Softmodems



MCU=Microcontroller Unit

DPU=Data Pump Unit

DAA=Data Access Arrangement

(<http://www.usr.com/education/modem1.asp> and [..modem2.asp](http://www.usr.com/education/modem2.asp))

RECOMMENDED DATA/FAX MODEMS

- **StarTech.com USB 2.0 Fax Modem** = 56K External Hardware Dial Up V.92 Modem/Dongle/Adapter - Computer/Laptop Fax Modem - USB to Telephone Jack - USB Data Modem - Network Fax/CMR/POS (USB56KEMH2)
Has a Conexant "CX93010 ACF" chip set.



Roll over image to zoom in

StarTech.com USB 2.0 Fax Modem - 56K External Hardware Dial Up V.92 Modem/ Dongle/Adapter - Computer/Laptop Fax Modem - USB to Telephone Jack - USB Data Modem - Network Fax/CMR/POS (USB56KEMH2)

[Visit the StarTech.com Store](#)

4.0 ★★★★★ 271 ratings | 36 answered questions

-29% \$45⁸³

List Price: \$64.99 ⓘ

✓prime One-Day

FREE Returns ▾

You can **earn up to \$275** with this limited-time offer, plus **unlimited 5% back at Amazon.com**. Terms apply

May be available at a lower price from [other sellers](#), potentially without free Prime shipping.

Extra Savings 90 days FREE music unlimited. Terms apply **1 Applicable Promotion** ▾

Brand StarTech.com

Delivery

\$45⁸³

✓prime

FREE Returns

FREE delivery

12. Order

📍 Delivery

92646

In Stock

Qty: 1 ▾

Payment

Ships from

Sold by

RECOMMENDED DATA/FAX MODEMS (continued)

- <https://www.amazon.com/Star-Tech-com-56K-USB-Dial-up-Modem/dp/B01MYLE06I/>

RECOMMENDED DATA/FAX MODEMS

(continued)

- **USB 56K External Dial Up Fax Data Modem** Windows 10 / 8 / 7 / XP / Vista
Brand: Miyagle
Has a Conexant "CX93010 ACF" chip set.



Click image to open expanded view



USB 56K External Dial Up Fax Data Modem Windows 10 / 8 / 7 / XP / Vista

Brand: Miyagle

4.2 ★★★★★ 705 ratings

| 103 answered questions

Amazon's **Choice** for "usb modem"

\$37⁹⁸

✓prime Two-Day

FREE Returns

With **Amazon Business**, you would have saved \$276.93 in the last year. [Create a free account](#) and save up to 10% today.

Brand Miyagle

Connectivity USB

Technology

Compatible Laptop, Personal Computer
Devices

Total 1

Ethernet
Ports

Delivery

\$37⁹⁸

✓prime Two-Day
FREE Returns

FREE delivery Sun
Order within 7 hrs

📍 Deliver to Francis
92646

In Stock

Qty: 1

Add to Cart

Buy Now

Payment Secure transaction

Ships from Amazon

Sold by Miyagle P

Returns Eligible for

Refund or

within 30

Support Free Ama

BIG STEPS OF INSTALLING A DATA/FAX MODEM

- BIG STEP 100:
Install per the manufacturer's instructions
- BIG STEP 200:
Test the modem
- BIG STEP 300:
Set "My Location" in "Windows.."
- BIG STEP 400:
Disable "Wait for dial tone" in
"Windows.."

BIG STEP 100 (Install modem..)

- If you are installing the modem into a "Windows.." computer Follow the manufacturer's directions for installing the modem.

If you are installing the modem into a "Linux" attach the modem to the computer

BIG STEP 100 (Install modem) (continued)

- If you are installing the modem into a "Linux" computer, attach the modem to the computer:

If the modem connects via USB, it can be installed with the computer powered up.

If the modem connects via PCie or PCie, install the modem with the computer powered off

BIG STEP 200 (Test modem)

- Small Step 201:
If you are installing a USB modem into a "Linux" computer, run `lsusb` from inside the "Terminal" app to verify that the operating computer recognizes the modem

BIG STEP 200 (Test modem) (continued)

- Small Step 201 (continued):
If you are installing a PCi or PCie modem into a "Linux" computer, run `lspci` from inside the "Terminal" app to verify that the operating computer recognizes the modem

BIG STEP 200 (Test modem) (continued)

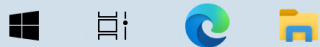
- Small Step 201 (continued):
If you are installing any type of modem into a "Windows" computer, please complete the remaining steps to run diagnostics on the modem:

BIG STEP 200 (Test modem) (continued)

- Small Step 201 (continued):
Get into "Phone and Modem" from either the "Control Panel" app or the "Settings" app of "Windows..":



Recycle Bin



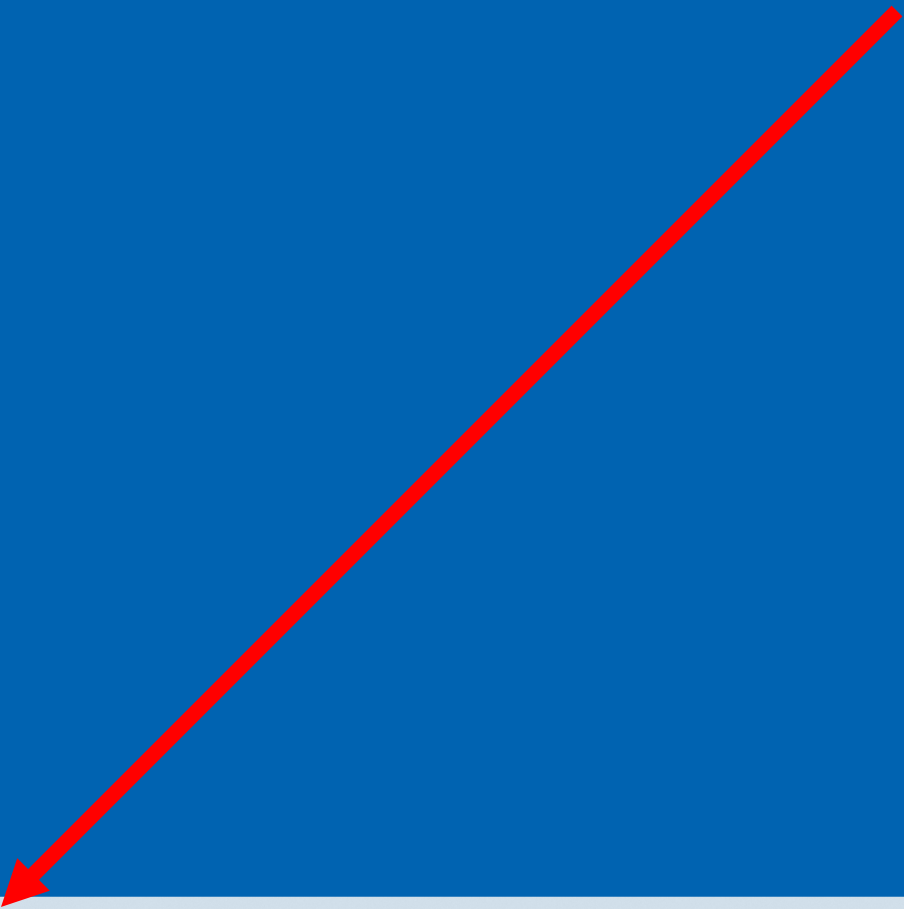
A set of three small system tray icons: a network icon, a volume icon, and a battery icon.

7:38 PM
12/2023

A button with a speech bubble icon and the text "Show hidden icons".

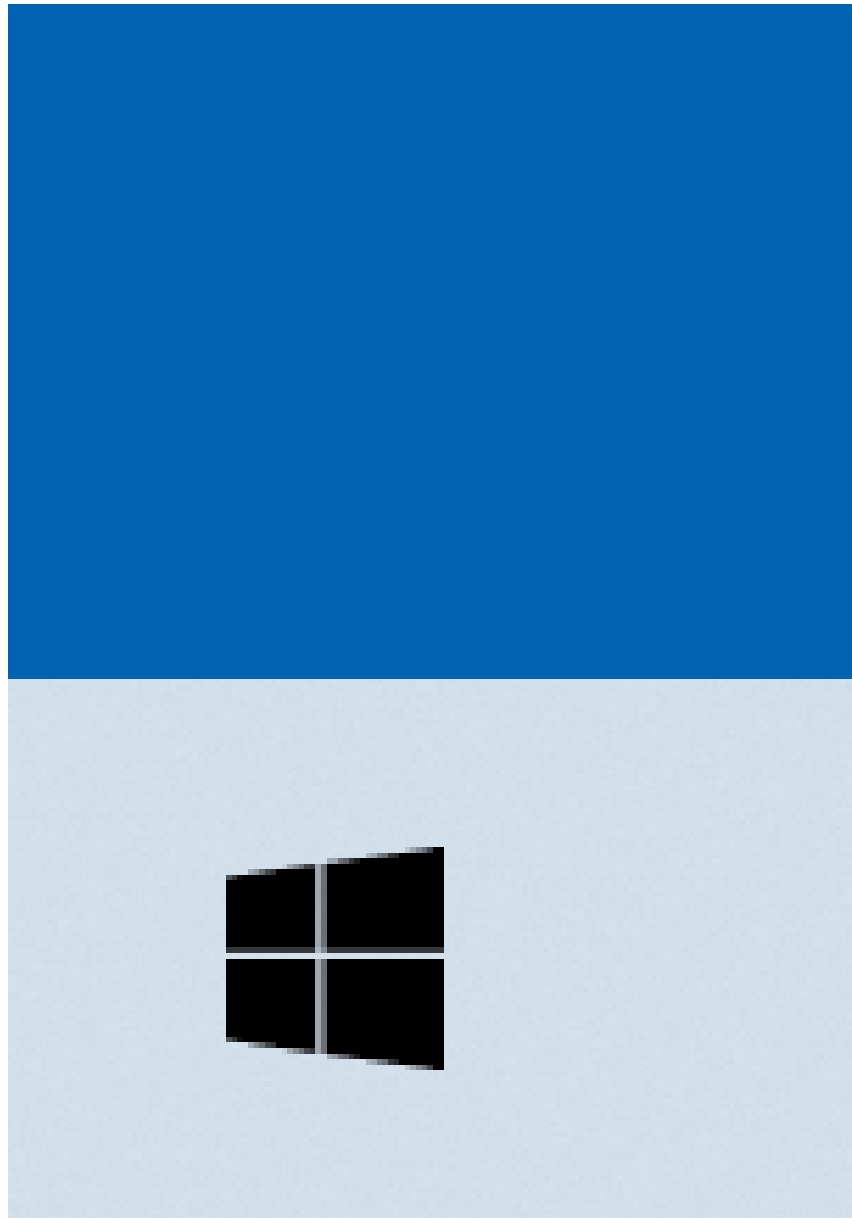


Recycle Bin



System tray area containing:

- A 'Show hidden icons' button with a small upward-pointing arrow.
- Four status icons: network, volume, battery, and a speech bubble for notifications.
- The time and date: 7:38 PM / 12/2023.






Recently added


 GIMP 2.10.34

#

 3D Viewer

C

 Calculator

 Calendar

 Camera


 Clock



 Cortana




F


 Feedback Hub



G

 Get Help



 GIMP 2.10.34



Productivity



Microsoft 365...



Mail



Microsoft Edge



Photos



Microsoft To...

Explore



Microsoft Store



Weather



Solitaire & Ca...

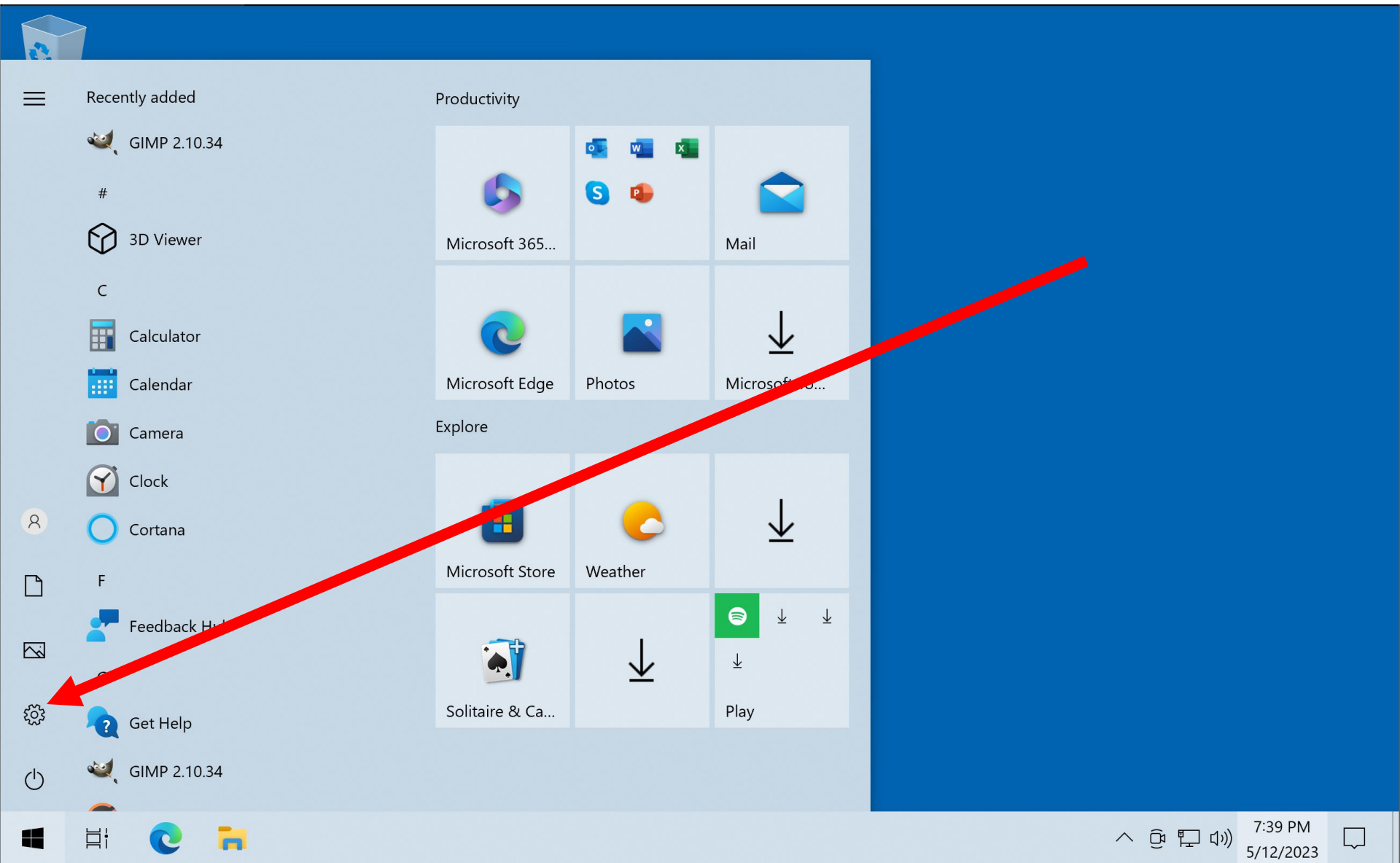


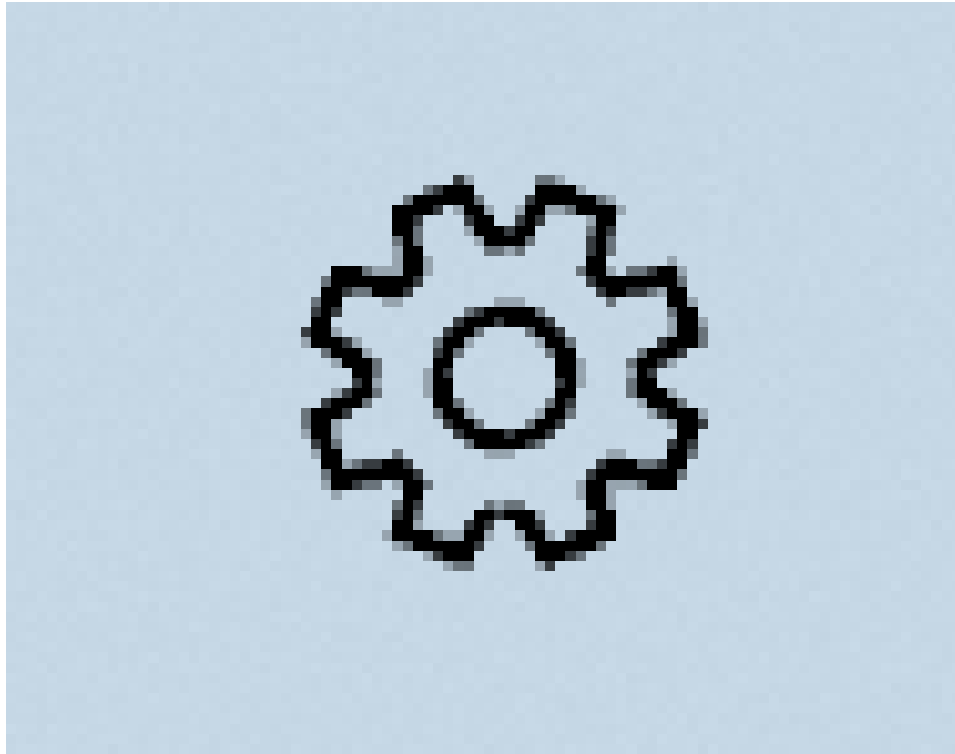
Play

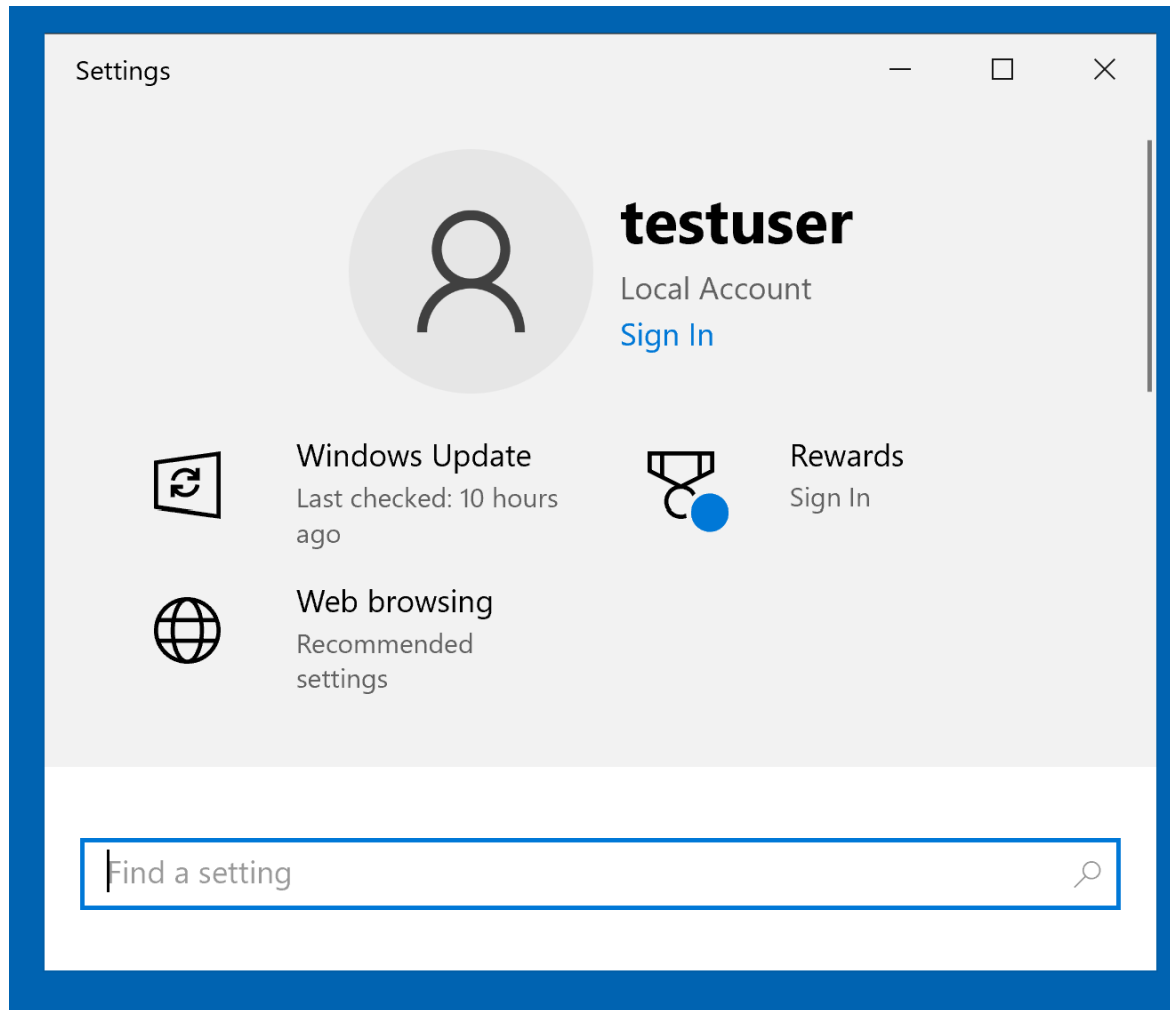


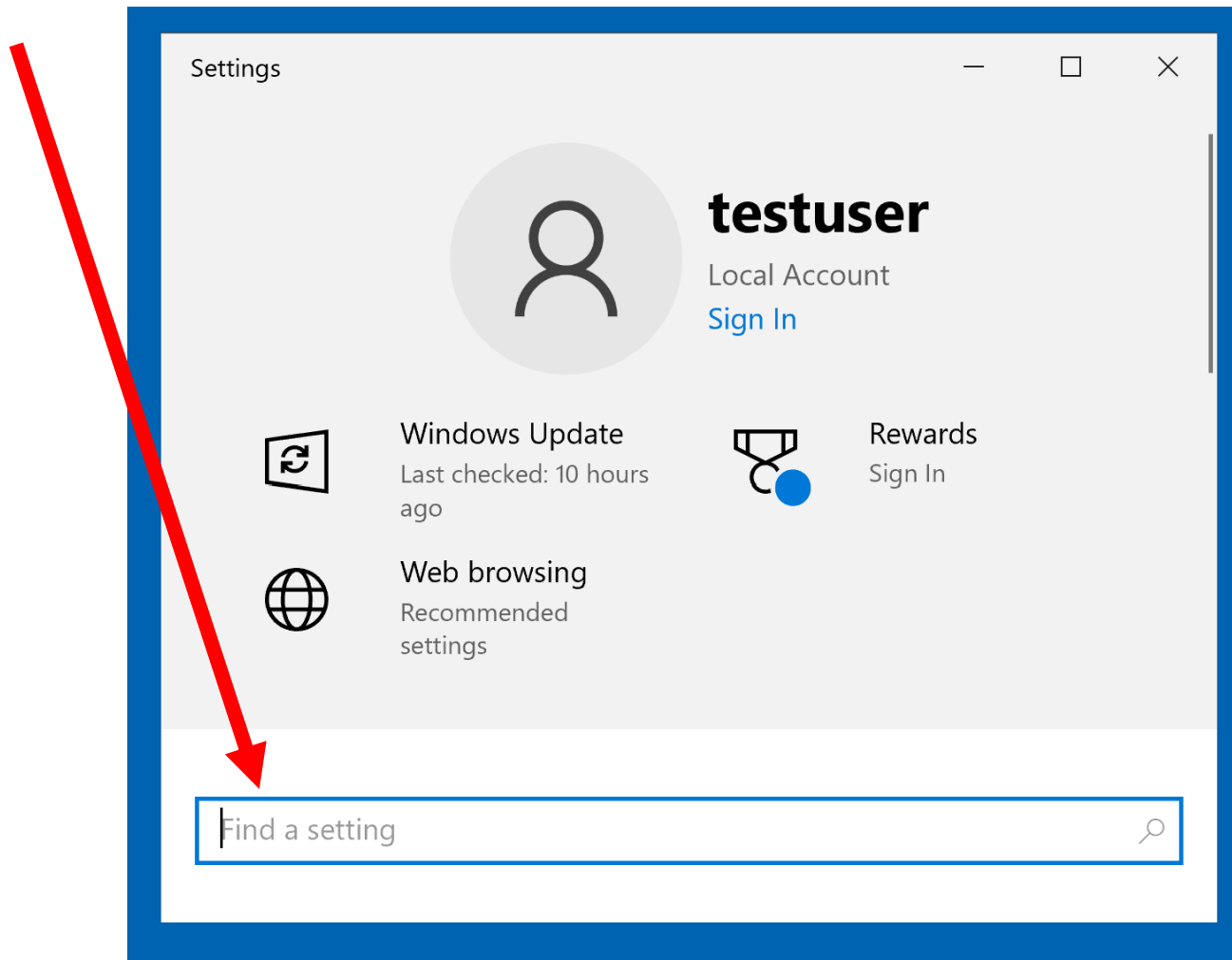
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5/12/2023

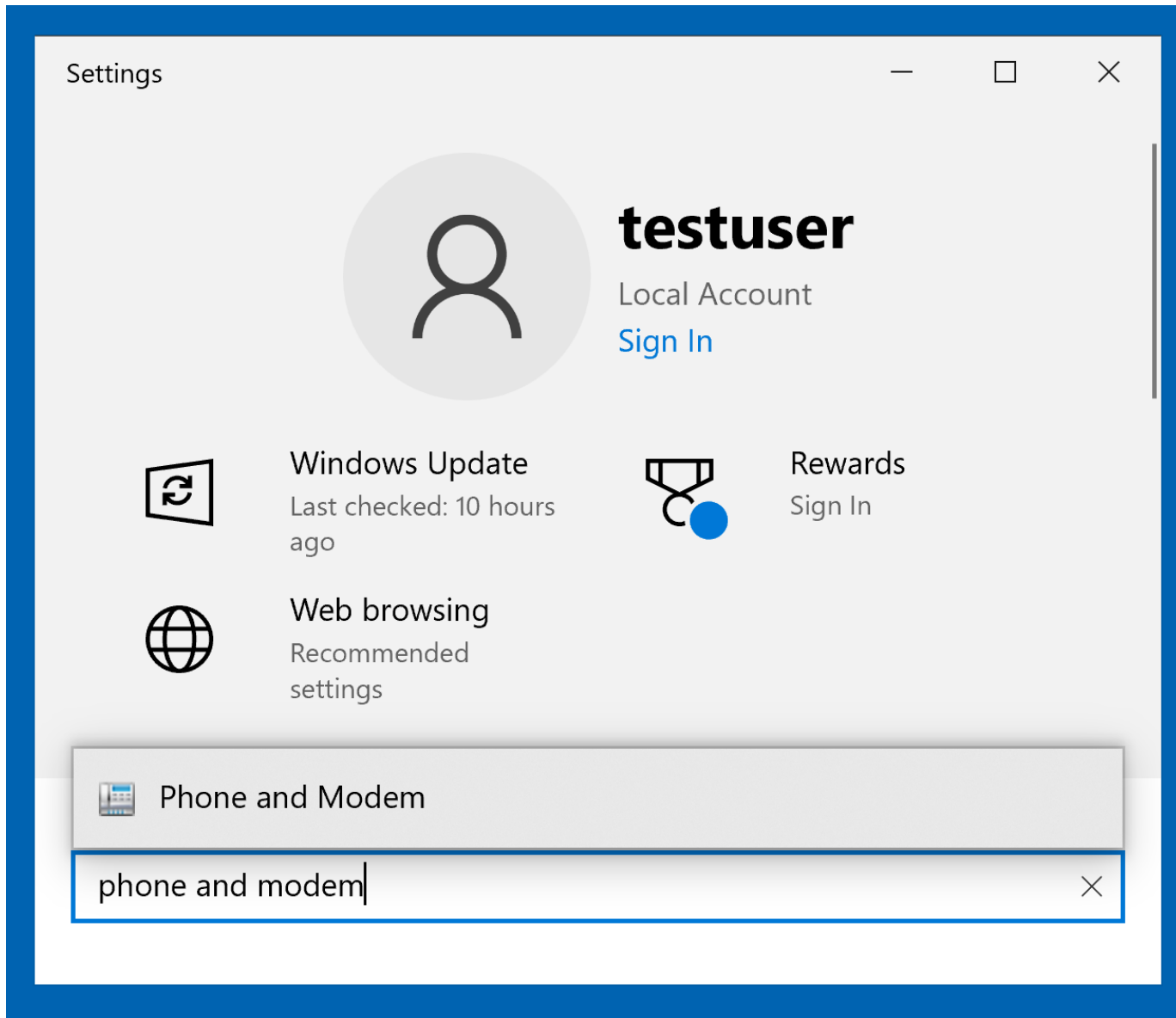


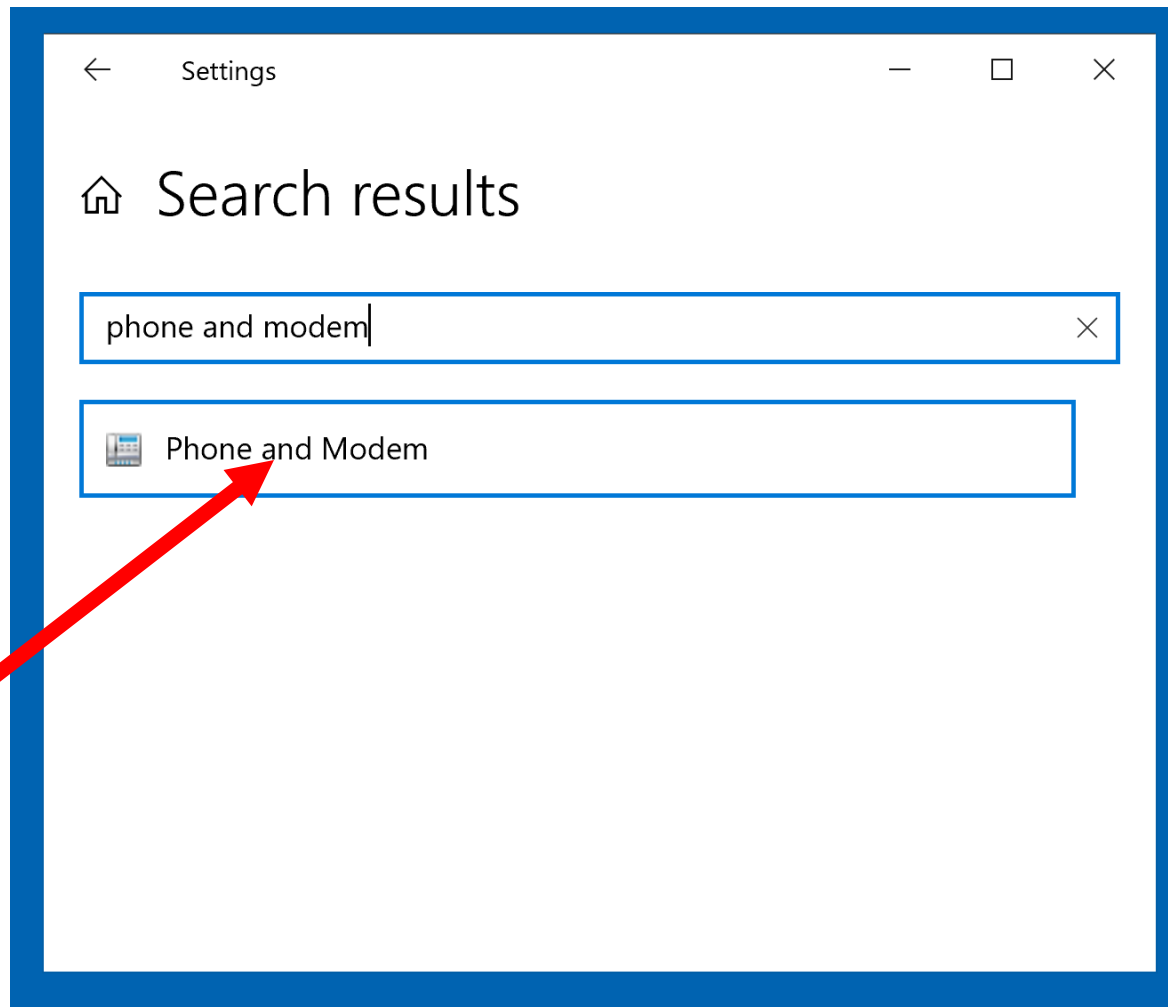


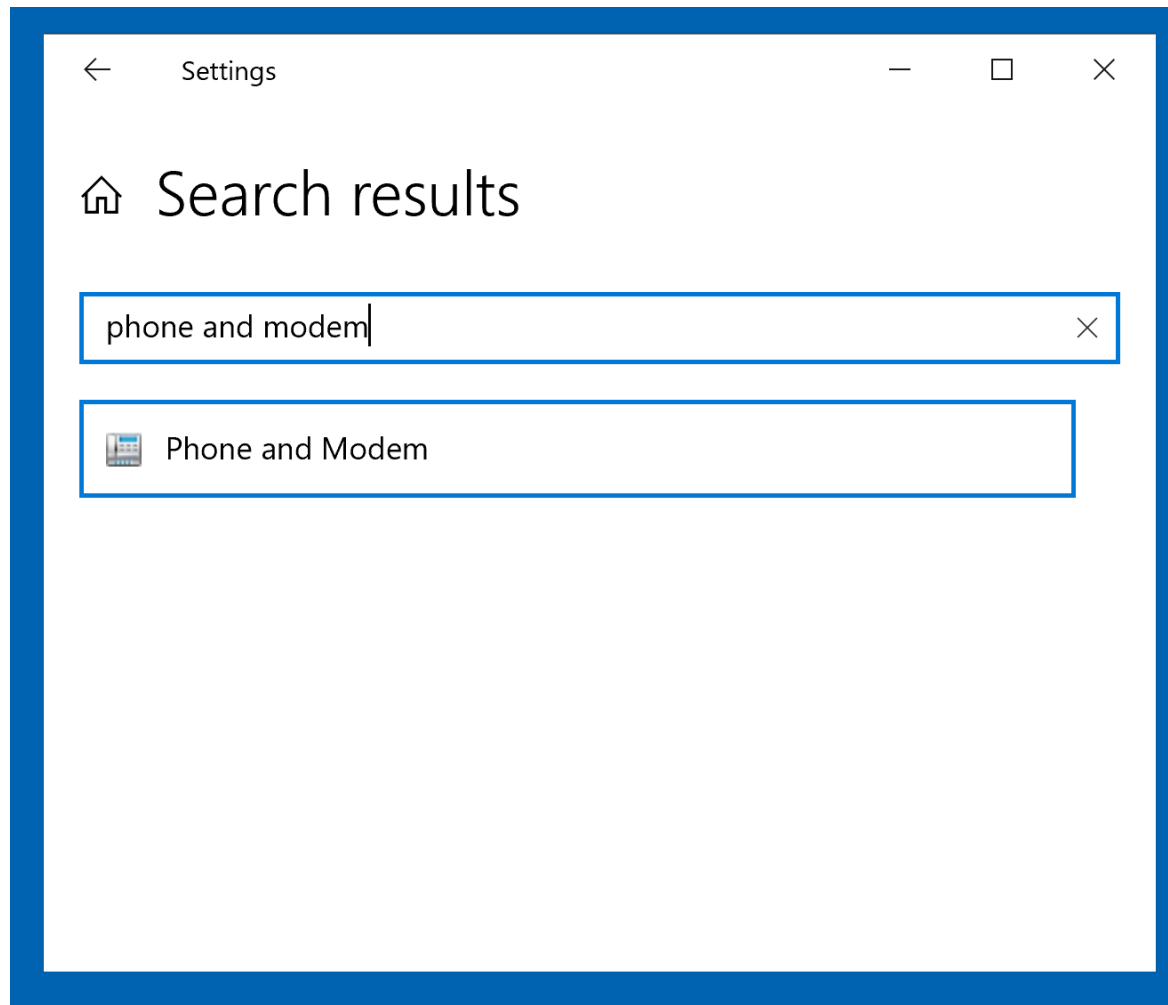






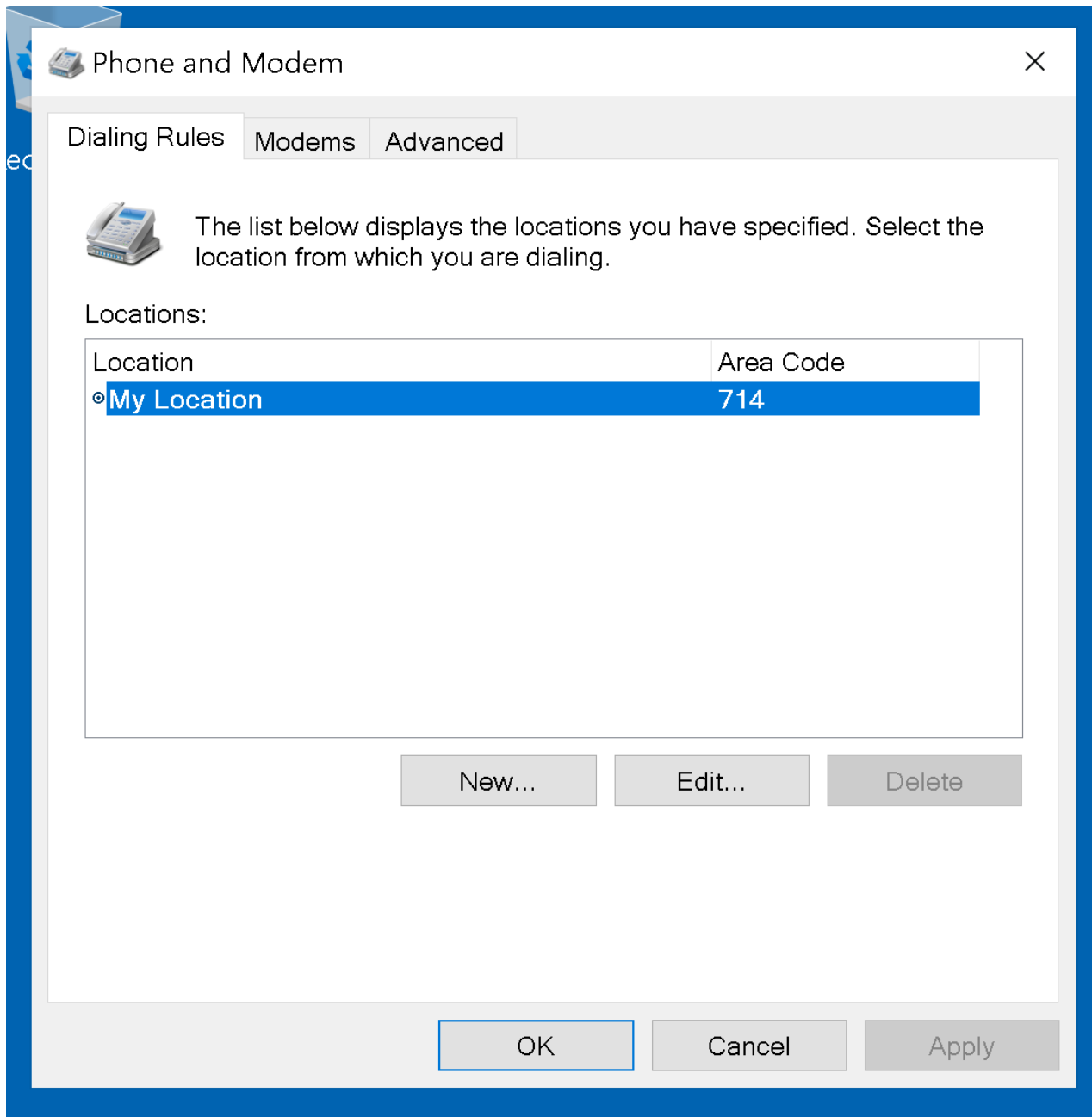


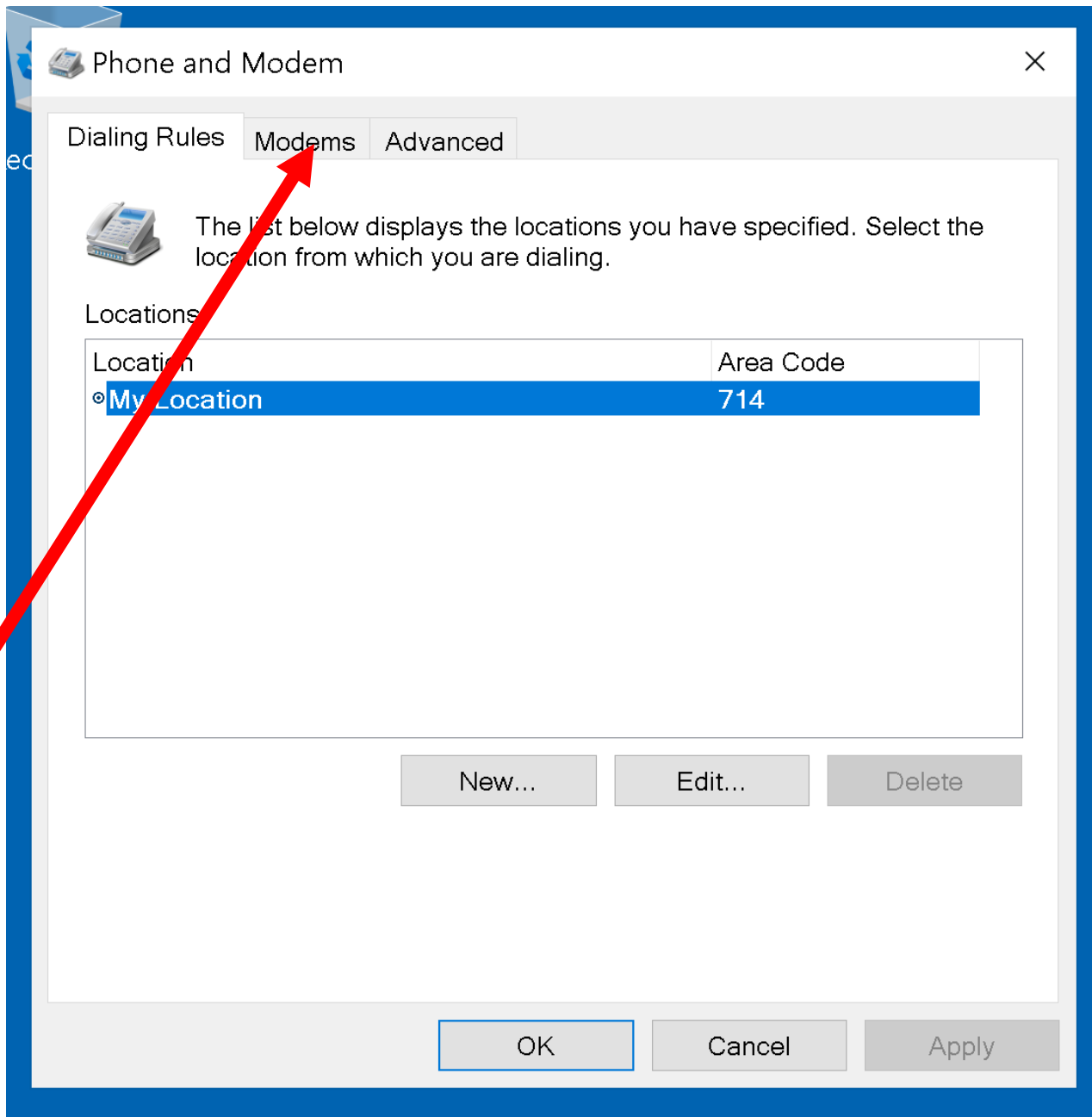




BIG STEP 200 (Test modem) (continued)

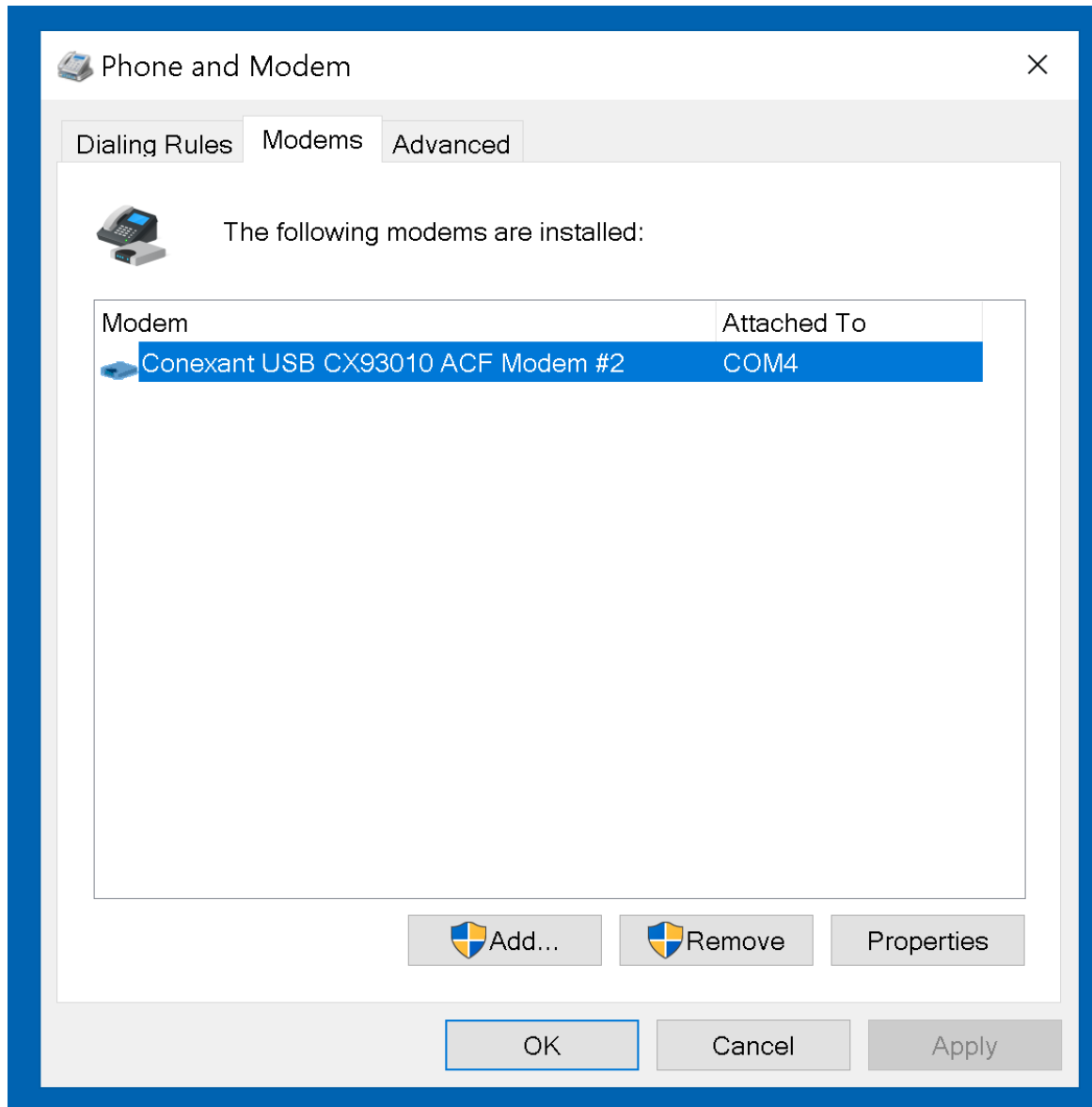
- Small Step 202:
Double-click on the "Modems" tab
inside "Phone and Modem":

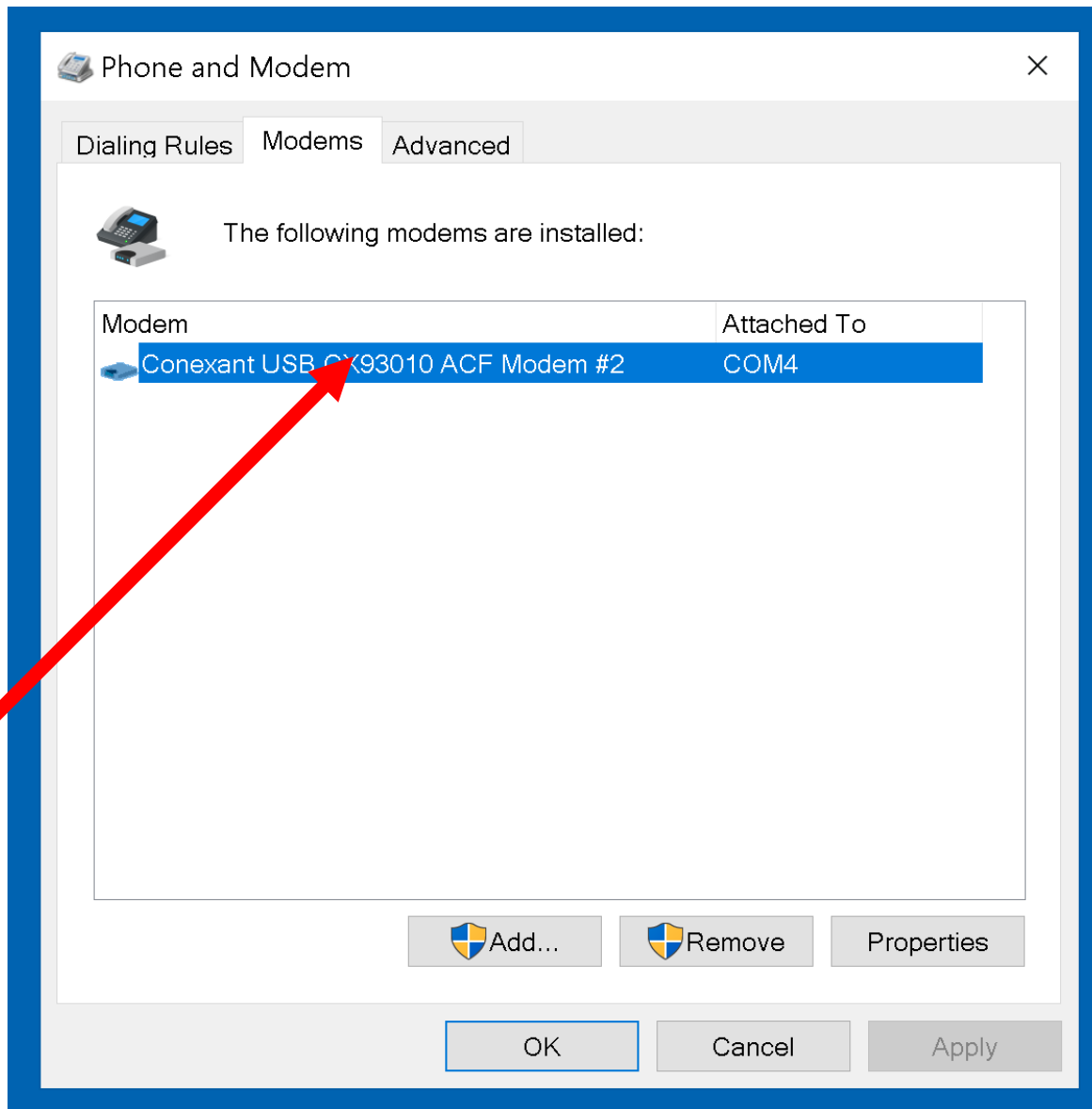




BIG STEP 200 (Test modem) (continued)

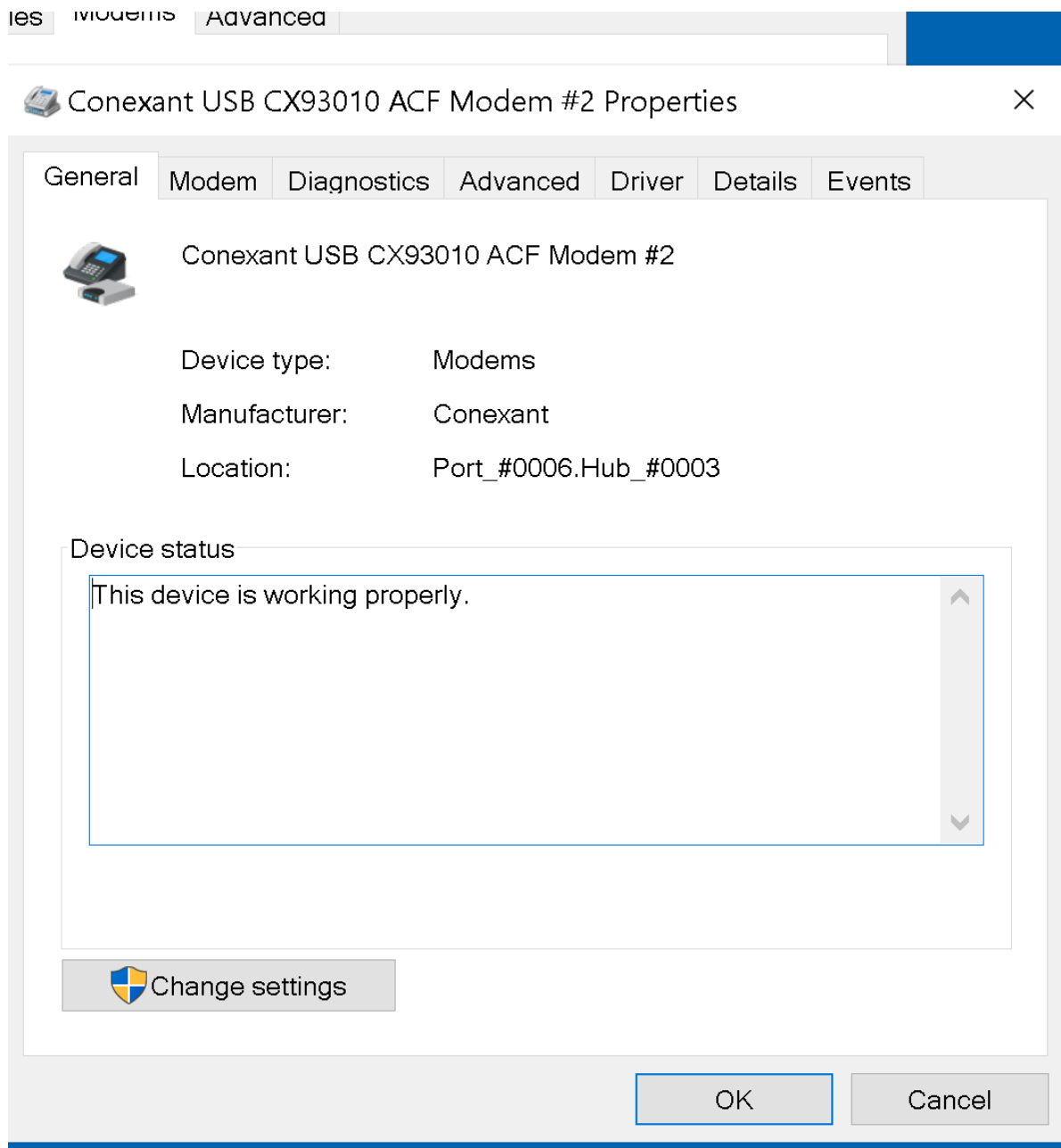
- Small Step 203:
Double-click on the newly-installed modem:

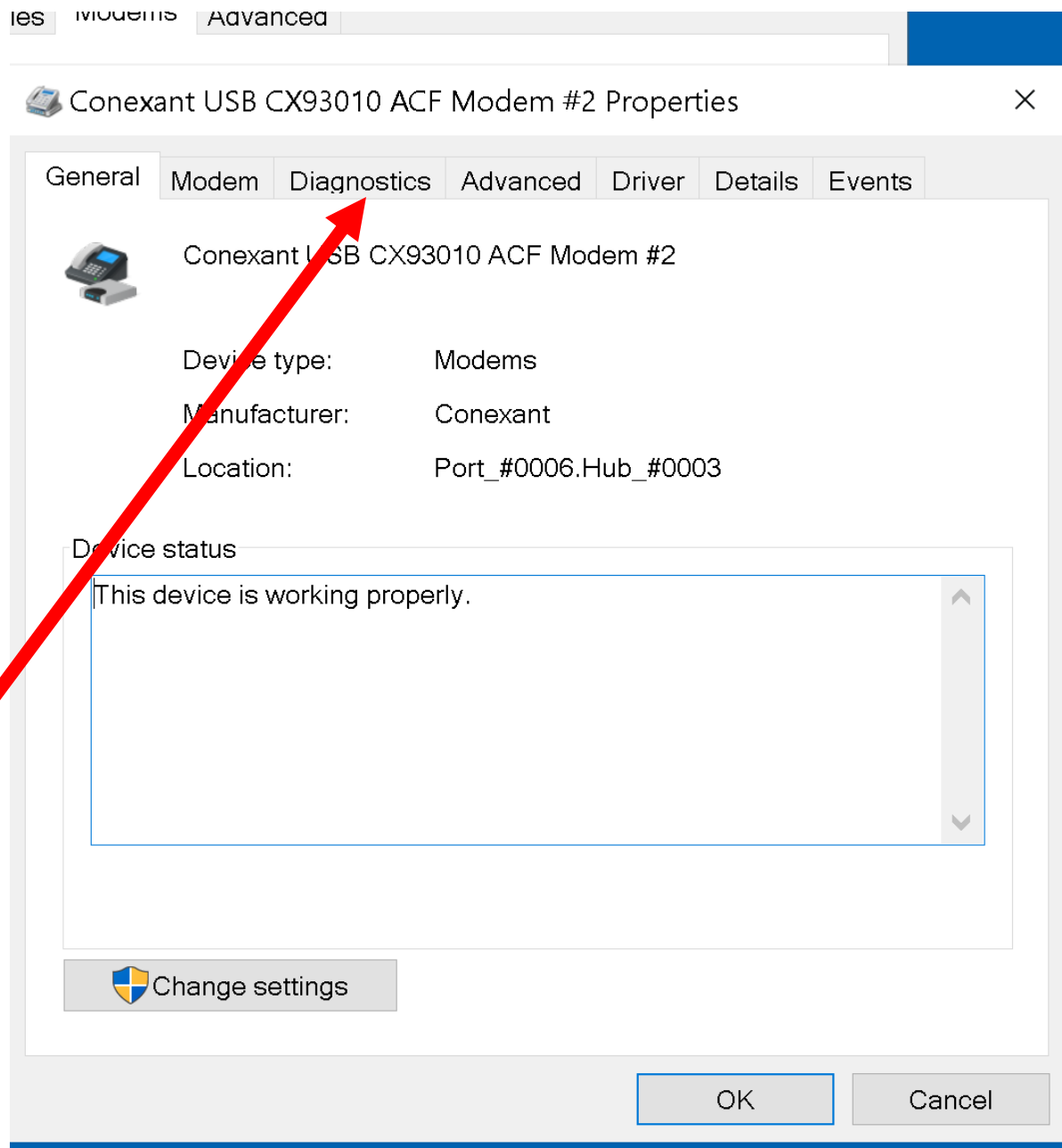




BIG STEP 200 (Test modem) (continued)

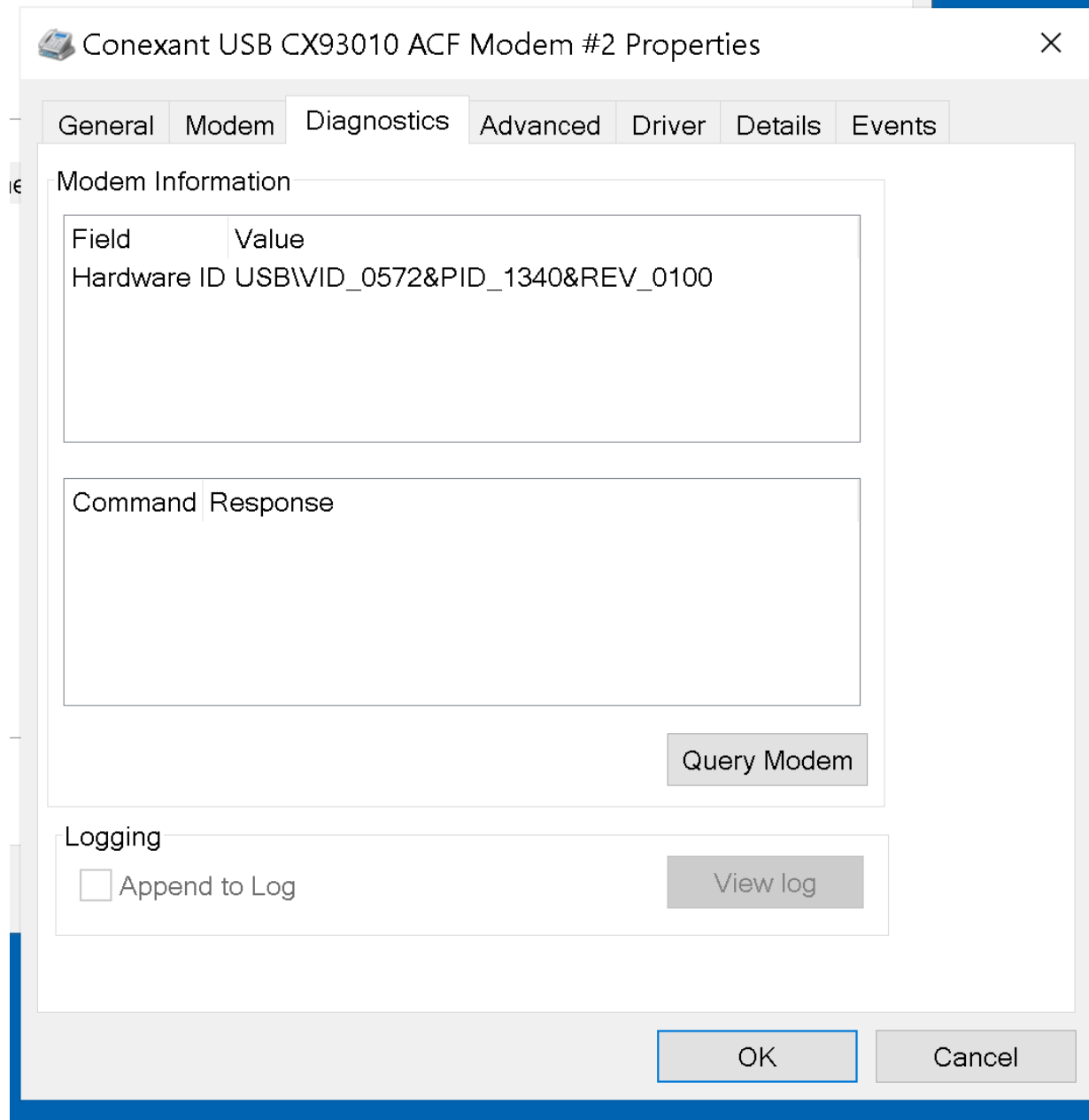
- Small Step 204:
Double-click on the Diagnostics tab:

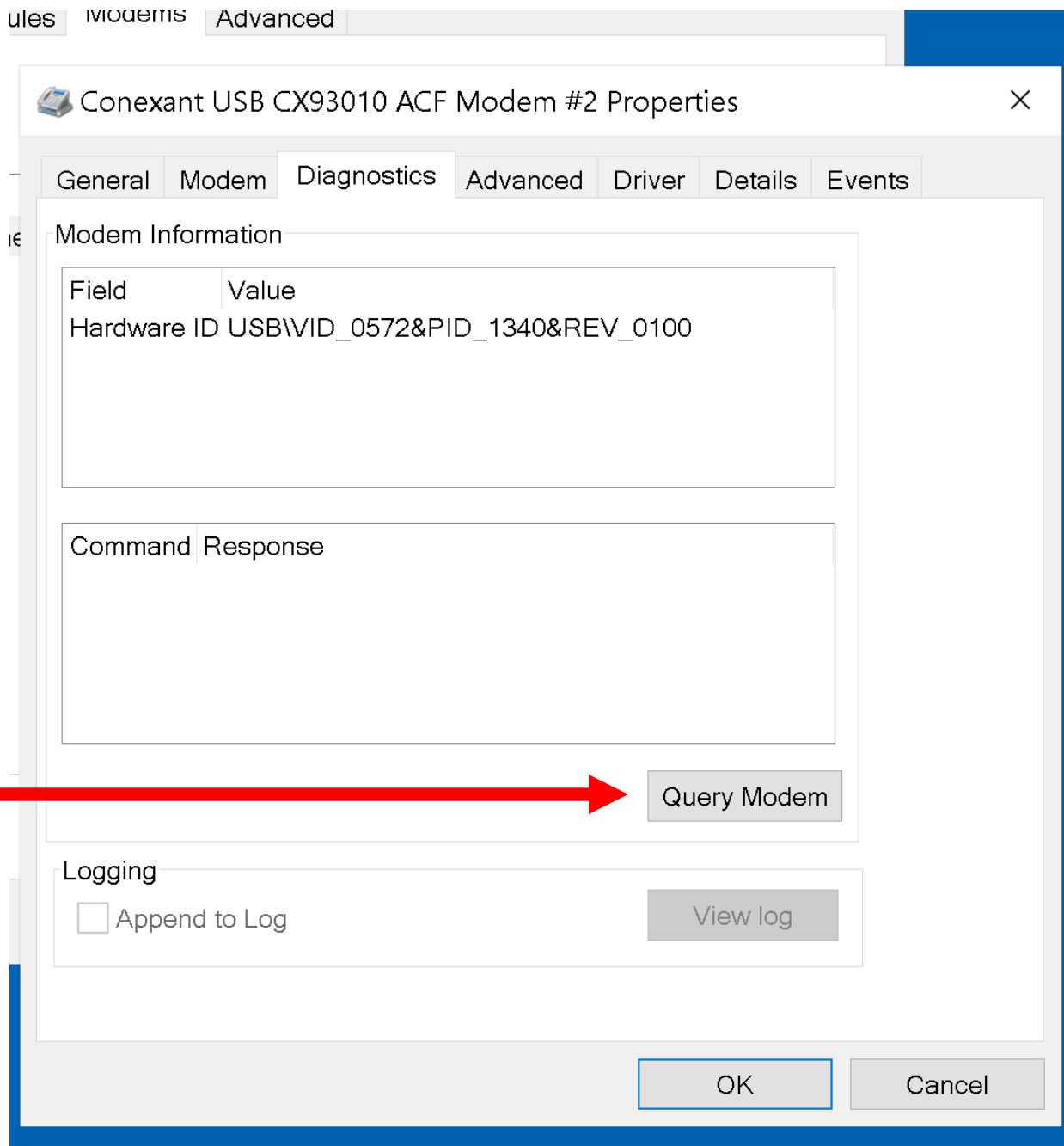




BIG STEP 200 (Test modem) (continued)

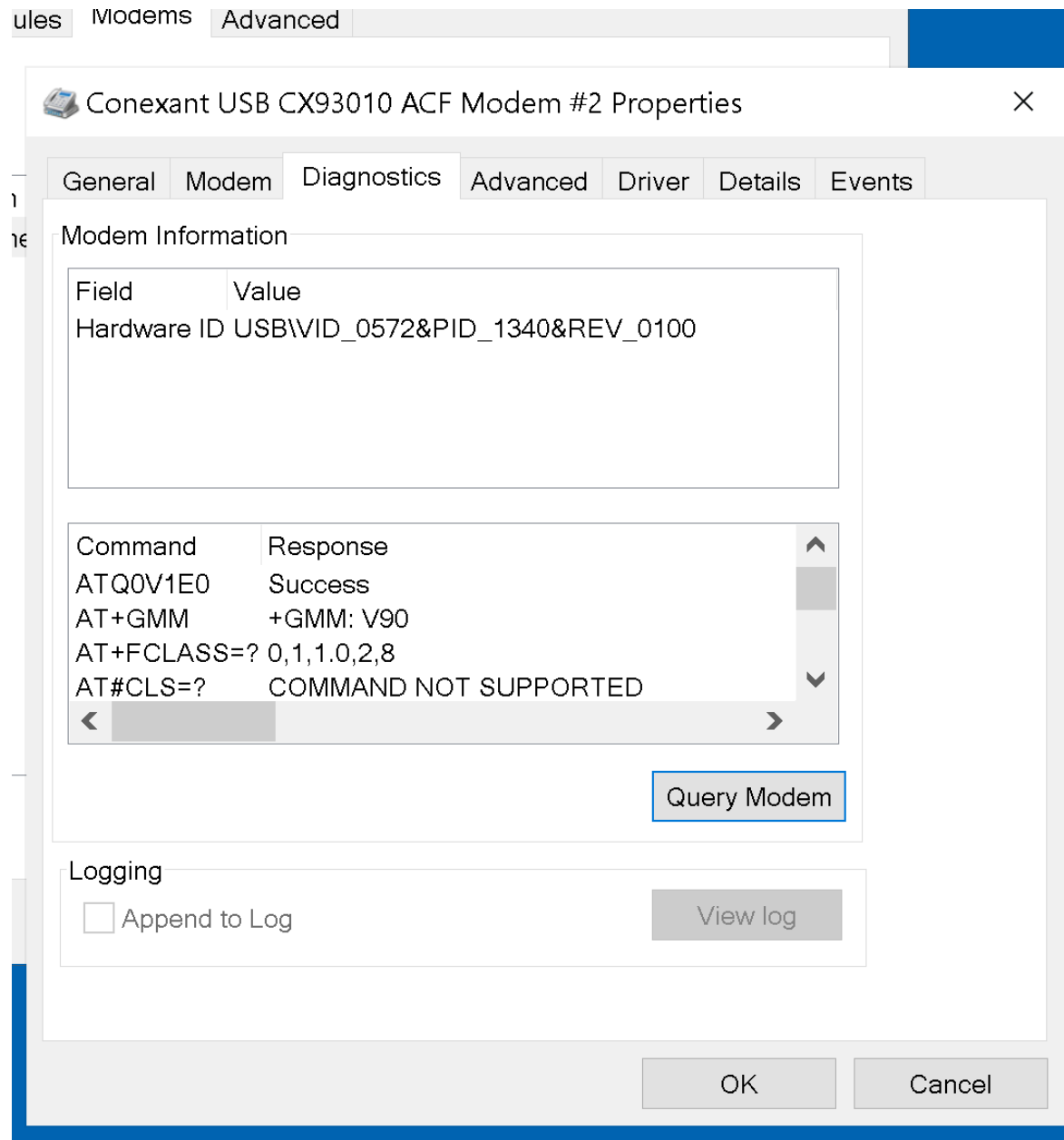
- Small Step 205:
Click on the Query Modem button:

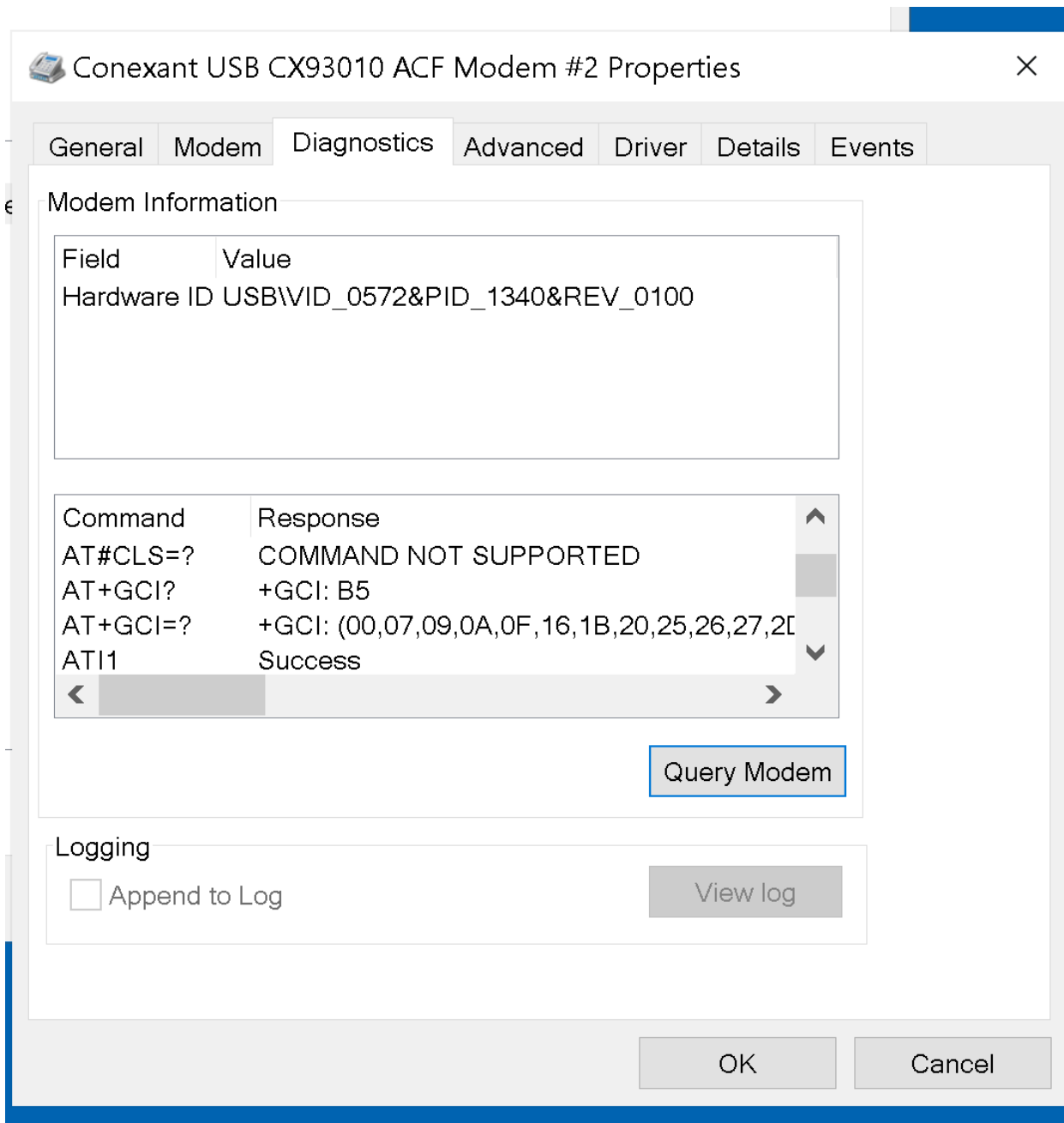


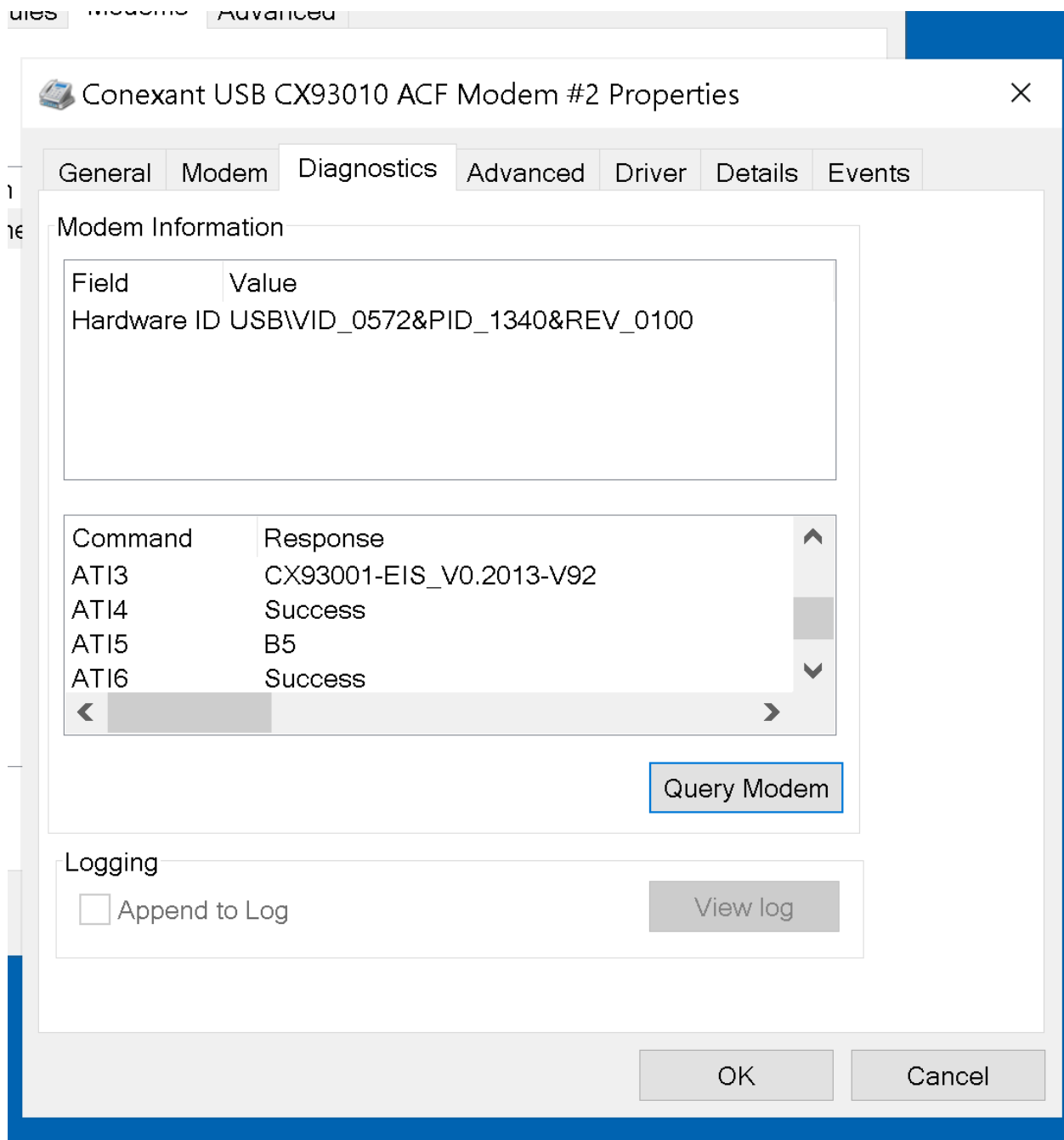


BIG STEP 200 (Test modem) (continued)

- Small Step 206:
Read the results:

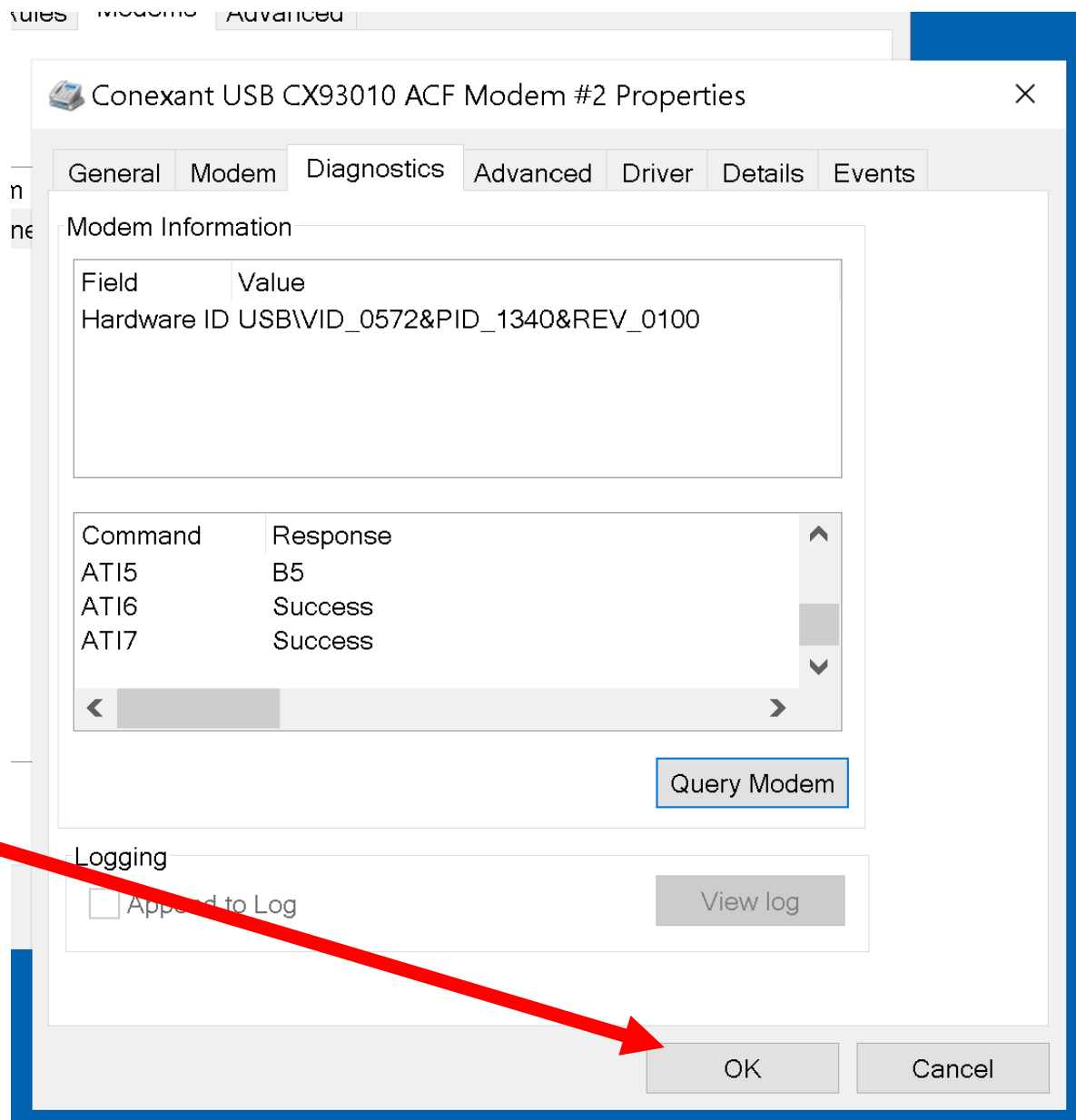






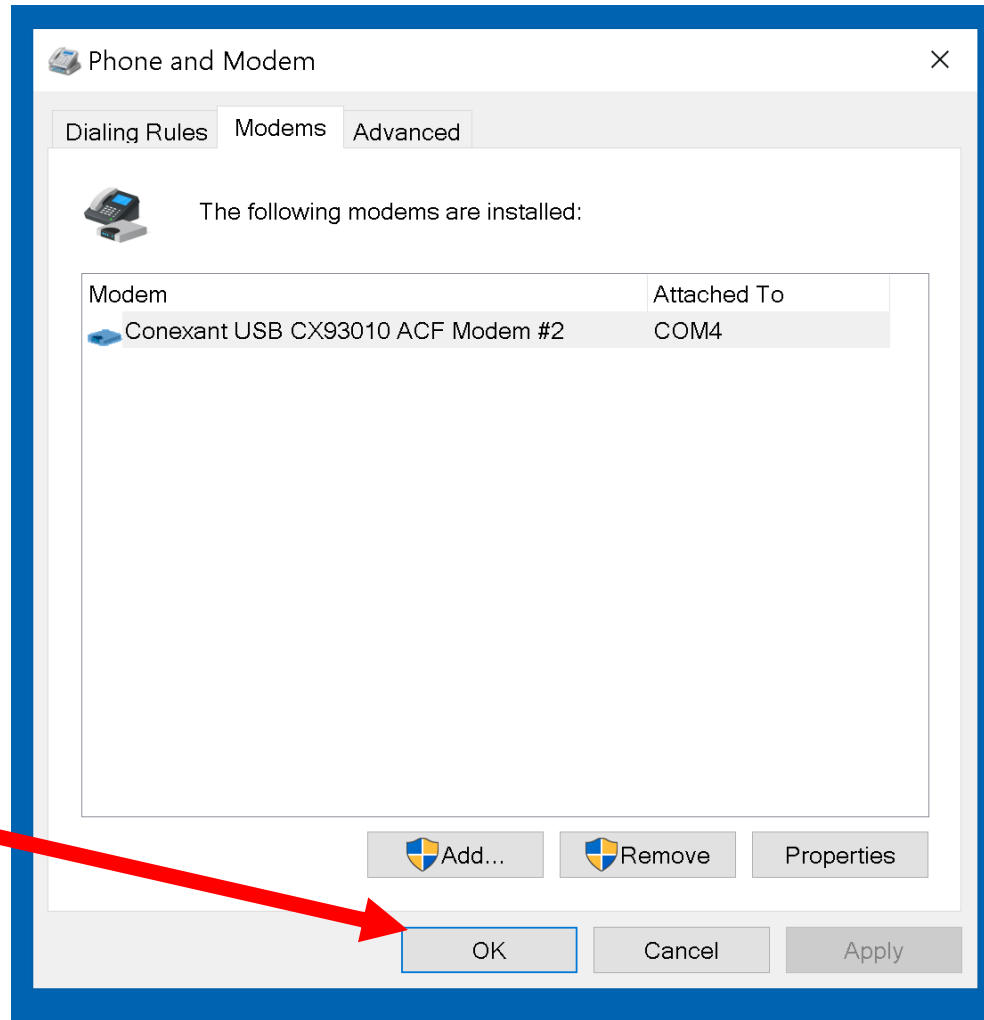
BIG STEP 200 (Test modem) (continued)

- Small Step 207:
Click on the OK button:



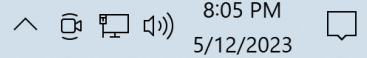
BIG STEP 200 (Test modem) (continued)

- Small Step 208:
Click on the OK button:





Recycle Bin



BIG STEP 300 ("My Location")

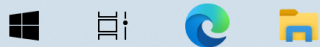
- Small Step 301 (continued):
If you are installing any type of modem into a "Windows" computer, please complete the remaining steps to set or verify the area code:

BIG STEP 300 ("My Location") (continued)

- Small Step 301 (continued):
Get into "Phone and Modem" from either the "Control Panel" app or the "Settings" app of "Windows..":



Recycle Bin



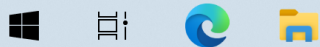
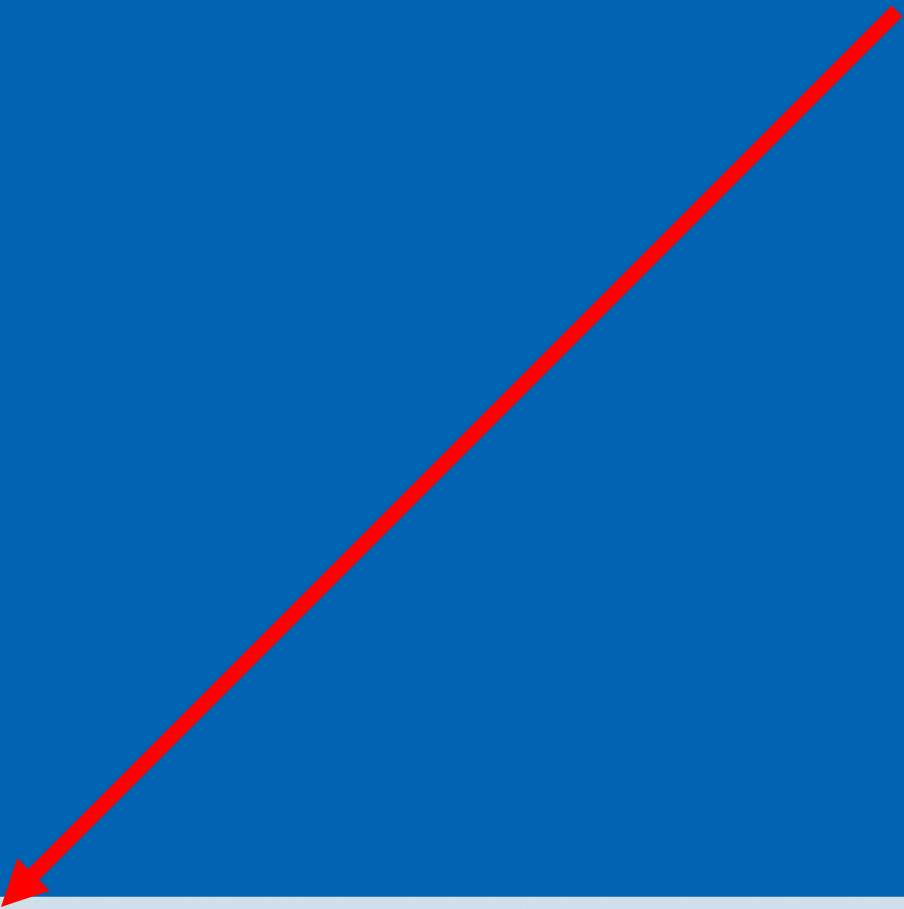
Three small icons in the system tray: a network icon, a volume icon, and a battery icon.

7:38 PM
12/12/2023

A speech bubble icon representing the Windows notification area.



Recycle Bin

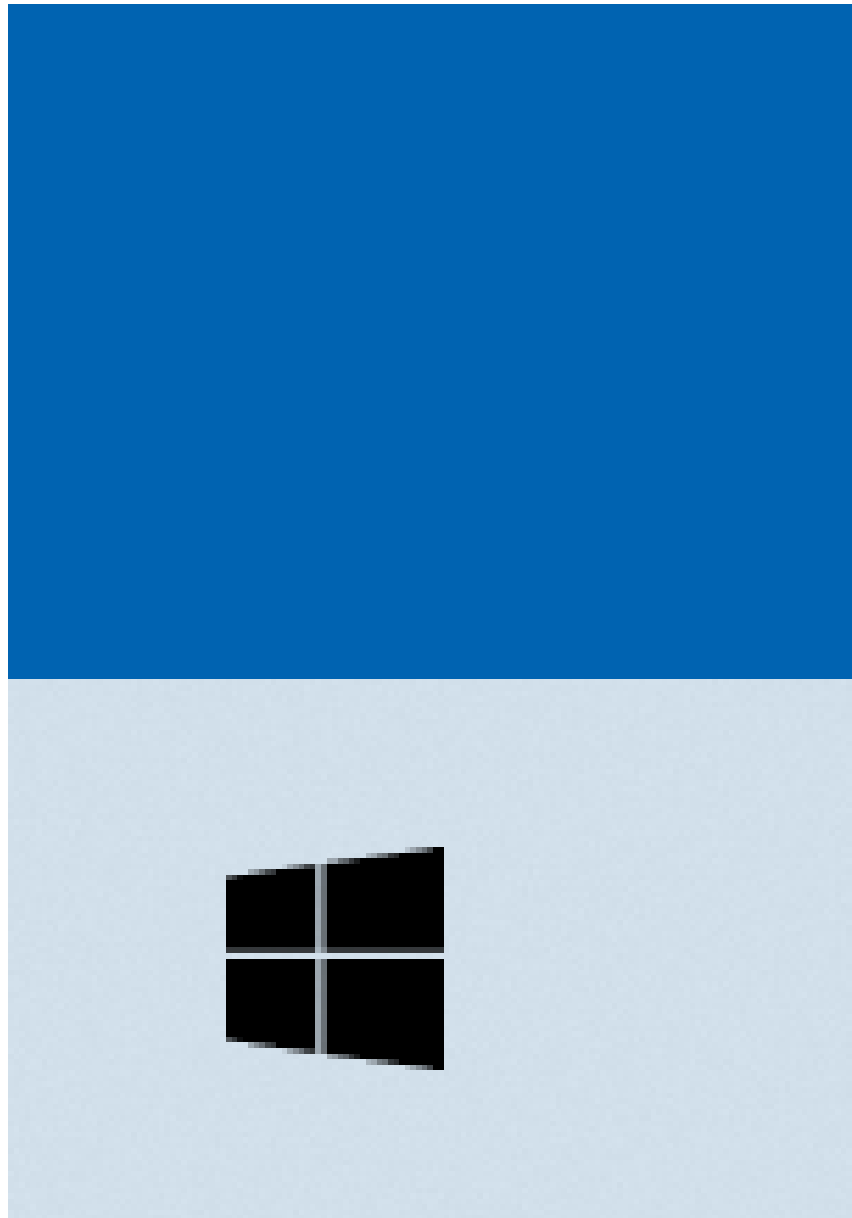


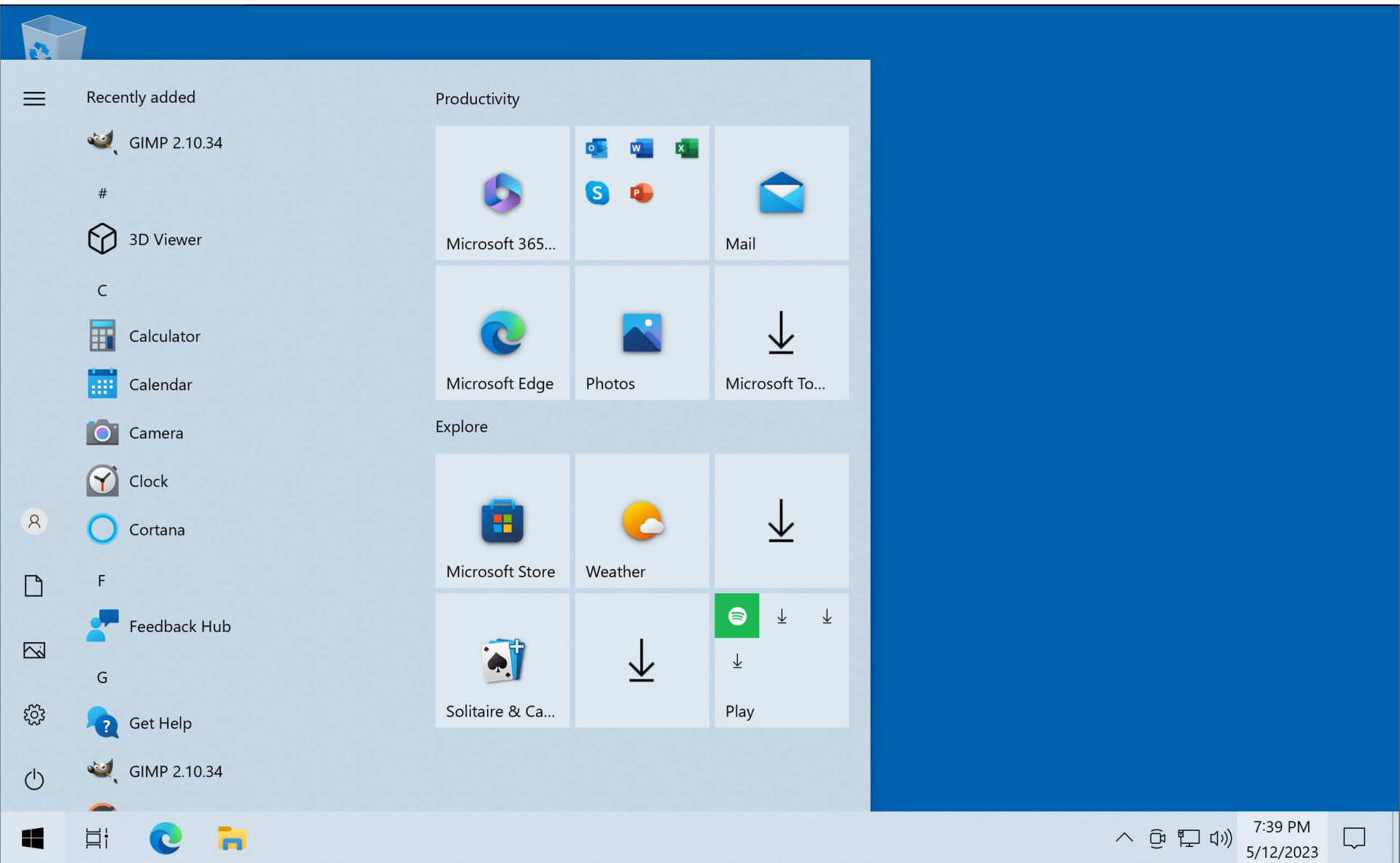
The system tray contains several small, semi-transparent icons: a network status icon, a volume icon, and a battery icon.

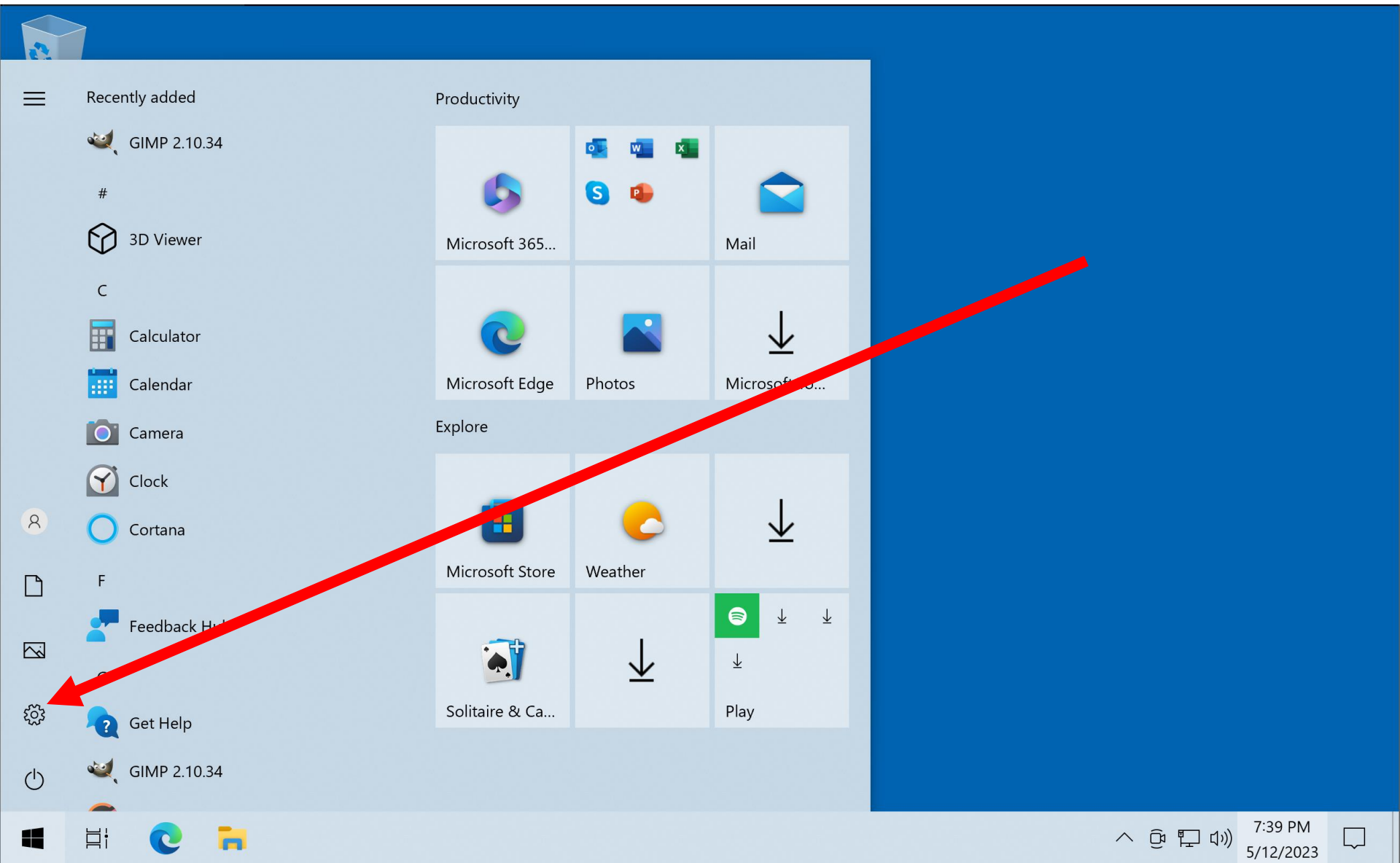
7:38 PM
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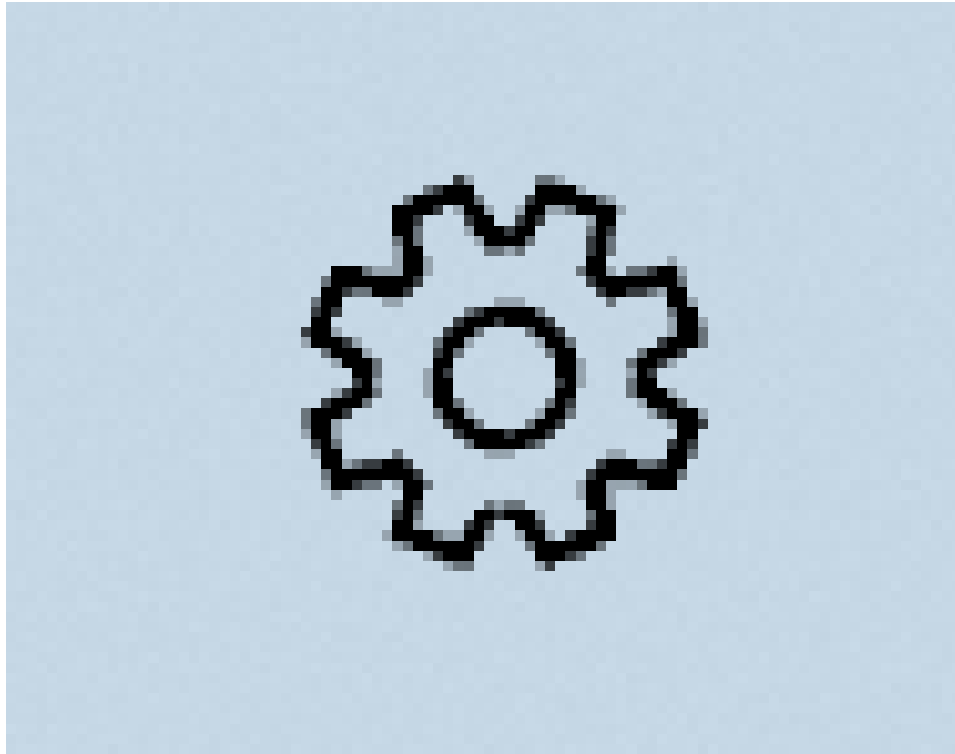
A small white speech bubble icon with a black outline.

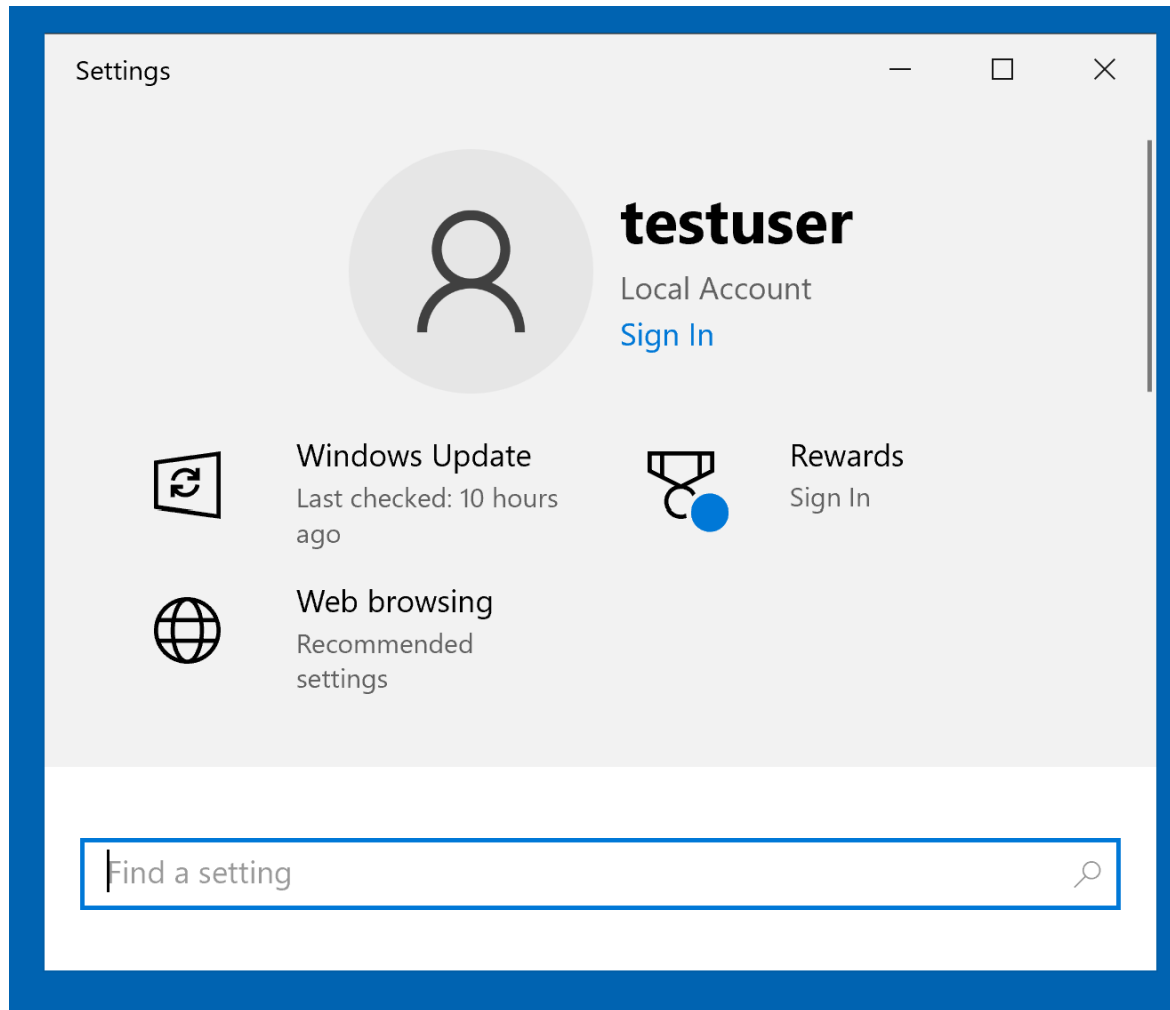
Show hidden icons

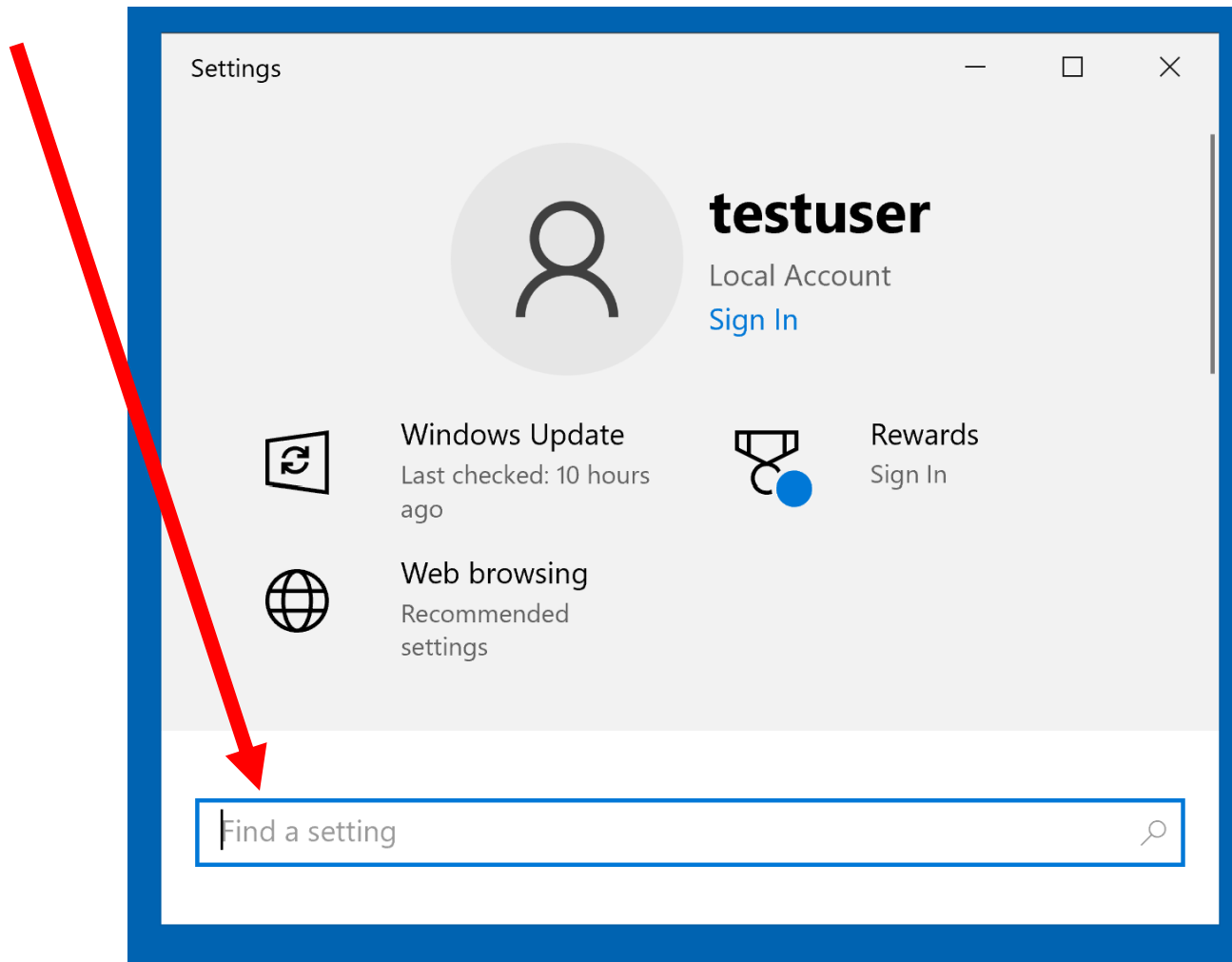


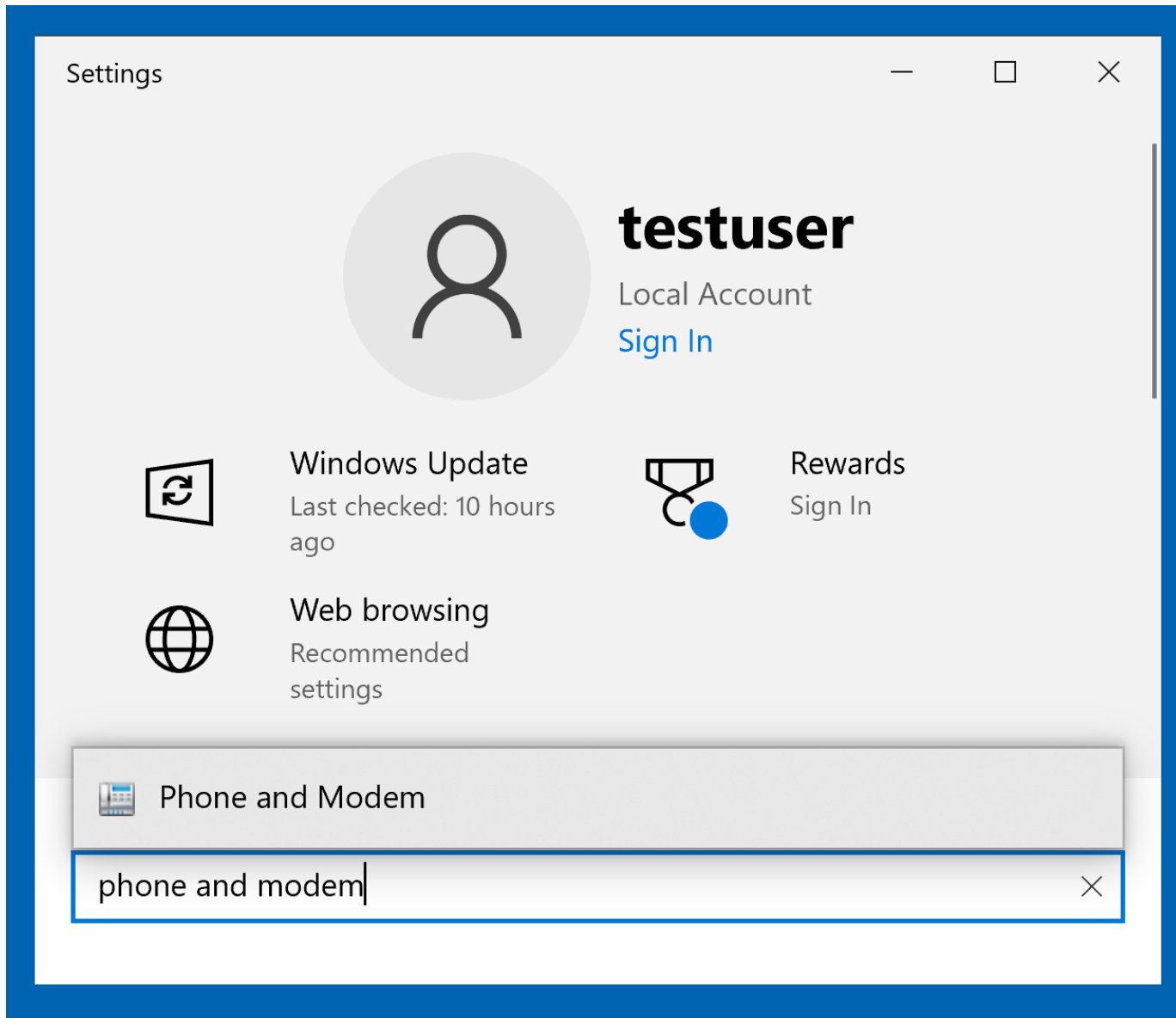


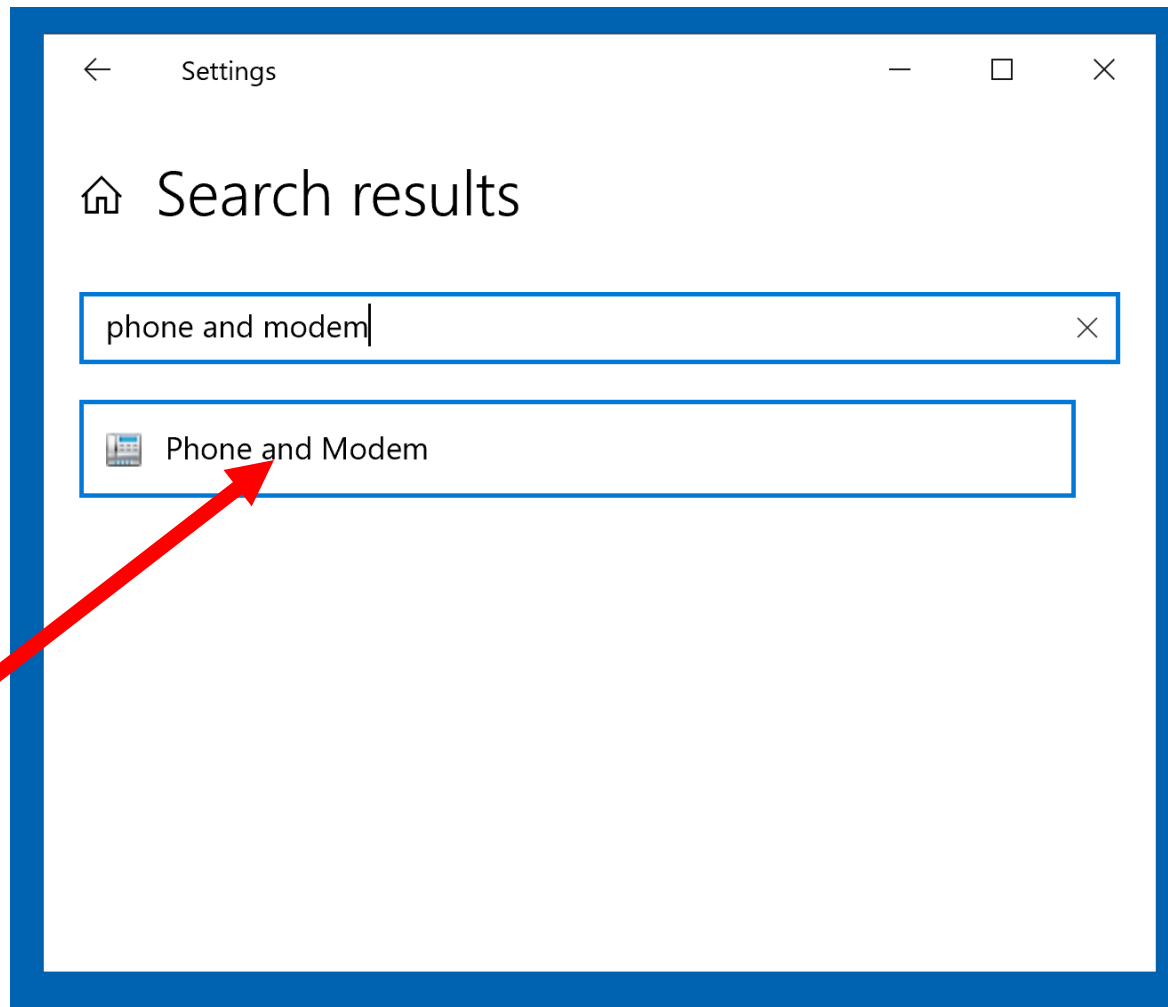


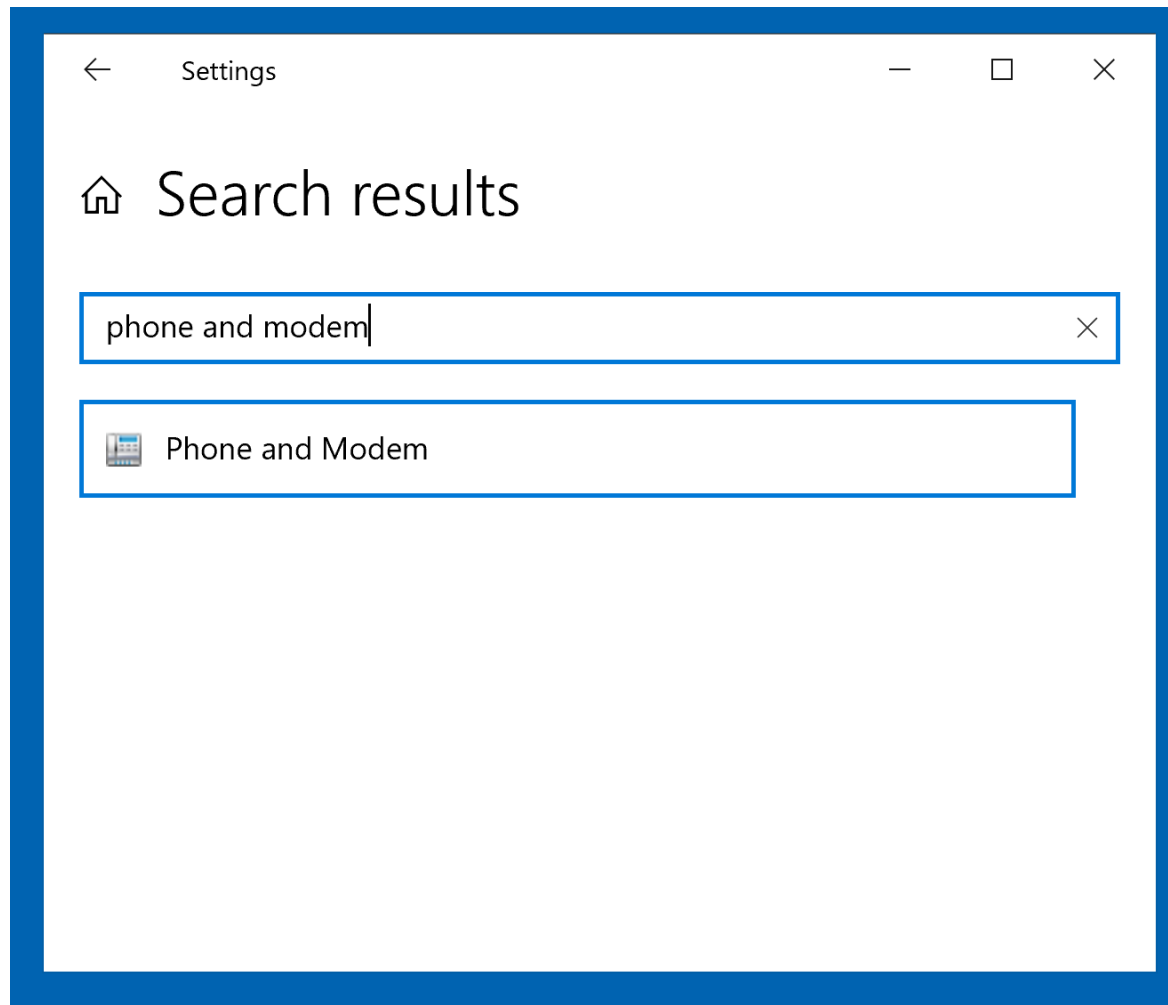












BIG STEP 301 ("My Location") (continued)

- Small Step 301 (continued):
If no one (for your Windows.. User account in the computer) has filled in the "My Location" screen yet, the "Location Information" will open up when you click on "Phone and Modem":

Location Information

✕

Before you can make any phone or modem connections, Windows needs the following information about your current location.

What country/region are you in now?

United States

What area code (or city code) are you in now?

If you need to specify a carrier code, what is it?

If you dial a number to access an outside line, what is it?

The phone system at this location uses:

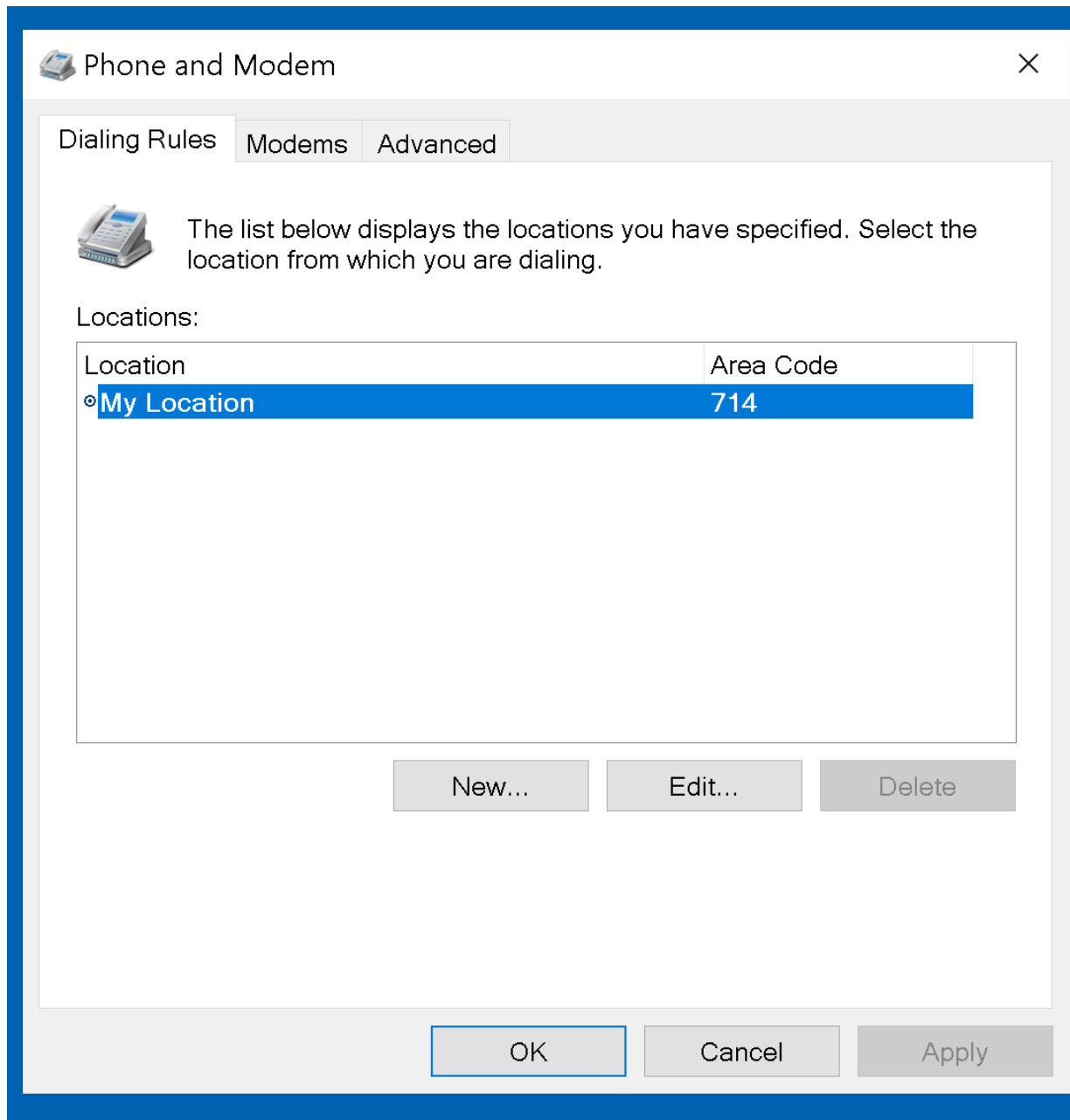
☒ Tone dialing ☐ Pulse dialing

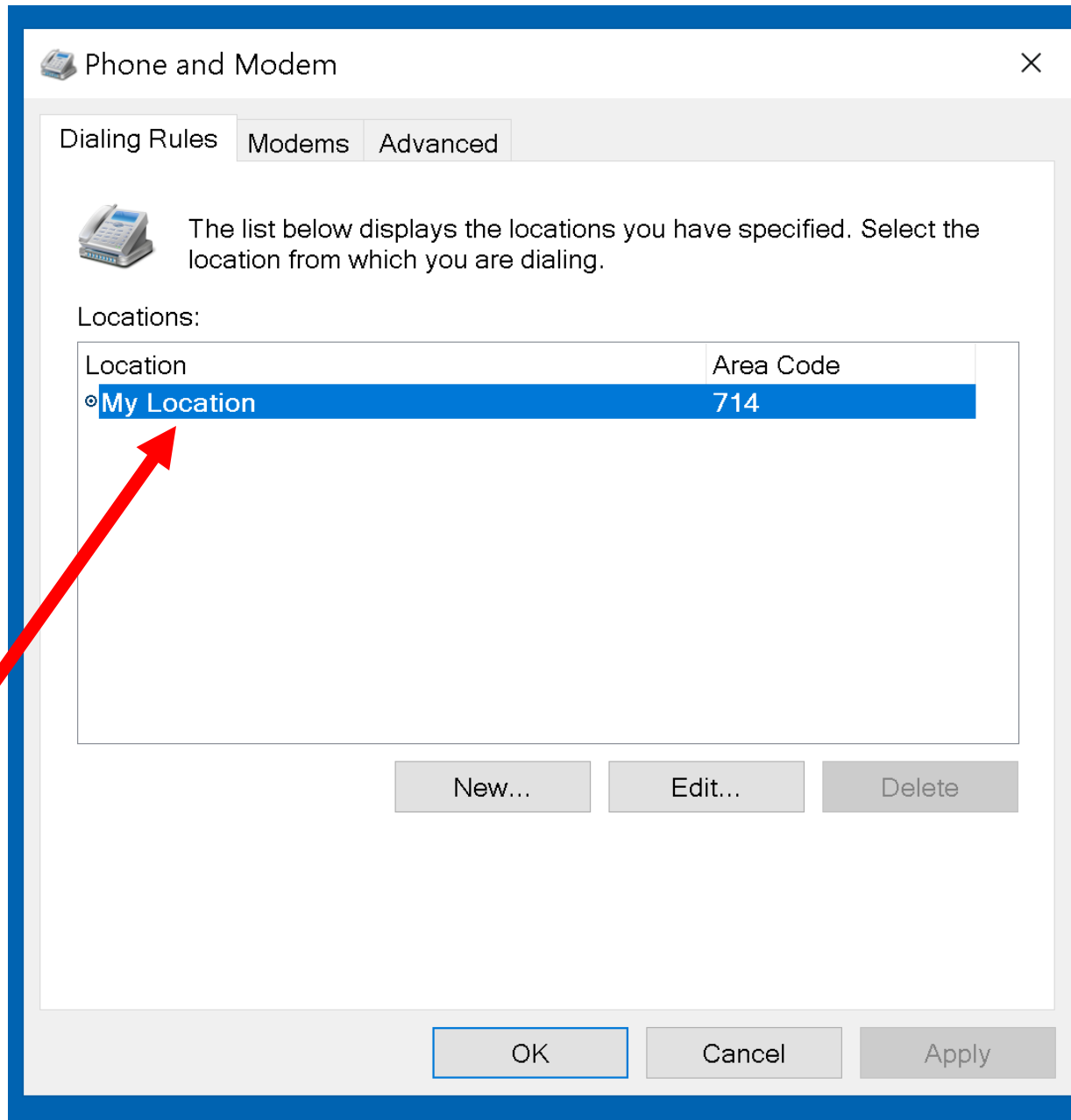
OK

Cancel

BIG STEP 300 ("My Location") (continued)

- Small Step 302:
If the "Location Information" dialog box, is not being displayed, double-click on "My Location" inside the "Dialing Rules" tab:





BIG STEP 300 ("My Location") (continued)

- Small Step 303:
Verify and correct the displayed information:
It is critical for you to have the correct country and area code displayed in the "Location Information" dialog box:

id Edit Location X

s General Area Code Rules Calling Card

he Location name: My Location

oca

Specify the location from which you will be dialing.

Country/region: United States Area code: 714

atic

Dialing rules

When dialing from this location, use the following rules:

To access an outside line for local calls, dial:

To access an outside line for long-distance calls, dial:

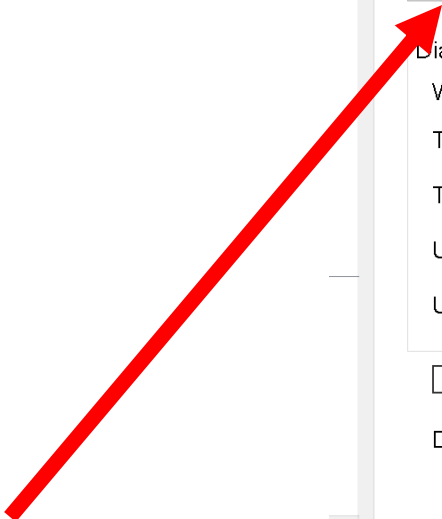
Use this carrier code to make long-distance calls:

Use this carrier code to make international calls:

☐ To disable call waiting, dial:

Dial using: ☒ Tone ☐ Pulse

OK Cancel Apply



id Edit Location X

General Area Code Rules Calling Card

Location name: My Location

Specify the location from which you will be dialing.

Country/region: United States Area code: 714

Dialing rules

When dialing from this location, use the following rules:

To access an outside line for local calls, dial:

To access an outside line for long-distance calls, dial:

Use this carrier code to make long-distance calls:

Use this carrier code to make international calls:

☐ To disable call waiting, dial:

Dial using: ☒ Tone ☐ Pulse

OK Cancel Apply

id Edit Location X

s General Area Code Rules Calling Card

he Location name: My Location

oca

atic

Specify the location from which you will be dialing.

Country/region: United States Area code: 714

Dialing rules

When dialing from this location, use the following rules:

To access an outside line for local calls, dial:

To access an outside line for long-distance calls, dial:

Use this carrier code to make long-distance calls:

Use this carrier code to make international calls:

☐ To disable call waiting, dial:

Dial using: ☒ Tone ☐ Pulse

OK Cancel Apply

BIG STEP 300 ("My Location") (continued)

- Small Step 304:
Click on the OK button:

id Edit Location X

s General Area Code Rules Calling Card

he Location name: My Location

oca

atic

Specify the location from which you will be dialing.

Country/region: United States Area code: 714

Dialing rules

When dialing from this location, use the following rules:

To access an outside line for local calls, dial:

To access an outside line for long-distance calls, dial:

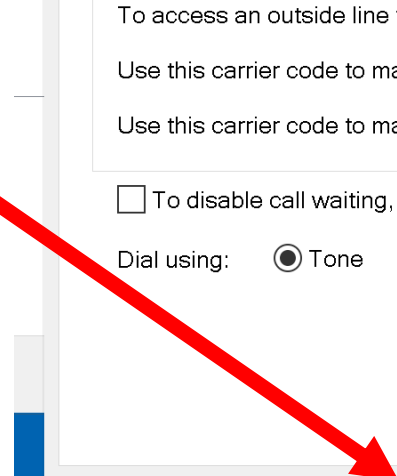
Use this carrier code to make long-distance calls:

Use this carrier code to make international calls:

☐ To disable call waiting, dial:

Dial using: ☒ Tone ☐ Pulse

OK Cancel Apply



BIG STEP 400 (Disable "Wait for dial tone")

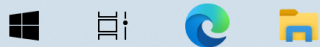
- Small Step 401 (continued):
If you are installing any type of modem into a "Windows" computer, please complete the remaining steps to disable "Wait for dial tone":

BIG STEP 400 (Disable "Wait for dial tone") (continued)

- Small Step 401 (continued):
Get into "Phone and Modem" from either the "Control Panel" app or the "Settings" app of "Windows..":



Recycle Bin



Three small icons in the system tray: a network icon, a volume icon, and a battery icon.

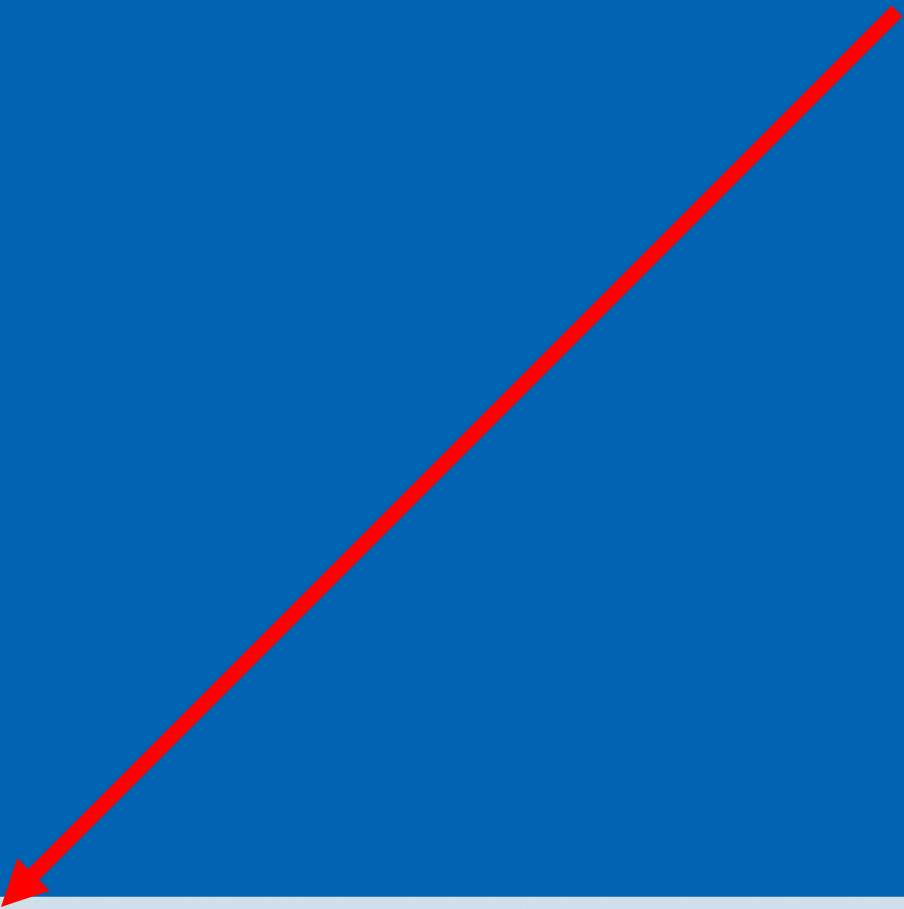
7:38 PM
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A speech bubble icon representing the Windows notification area.

Show hidden icons

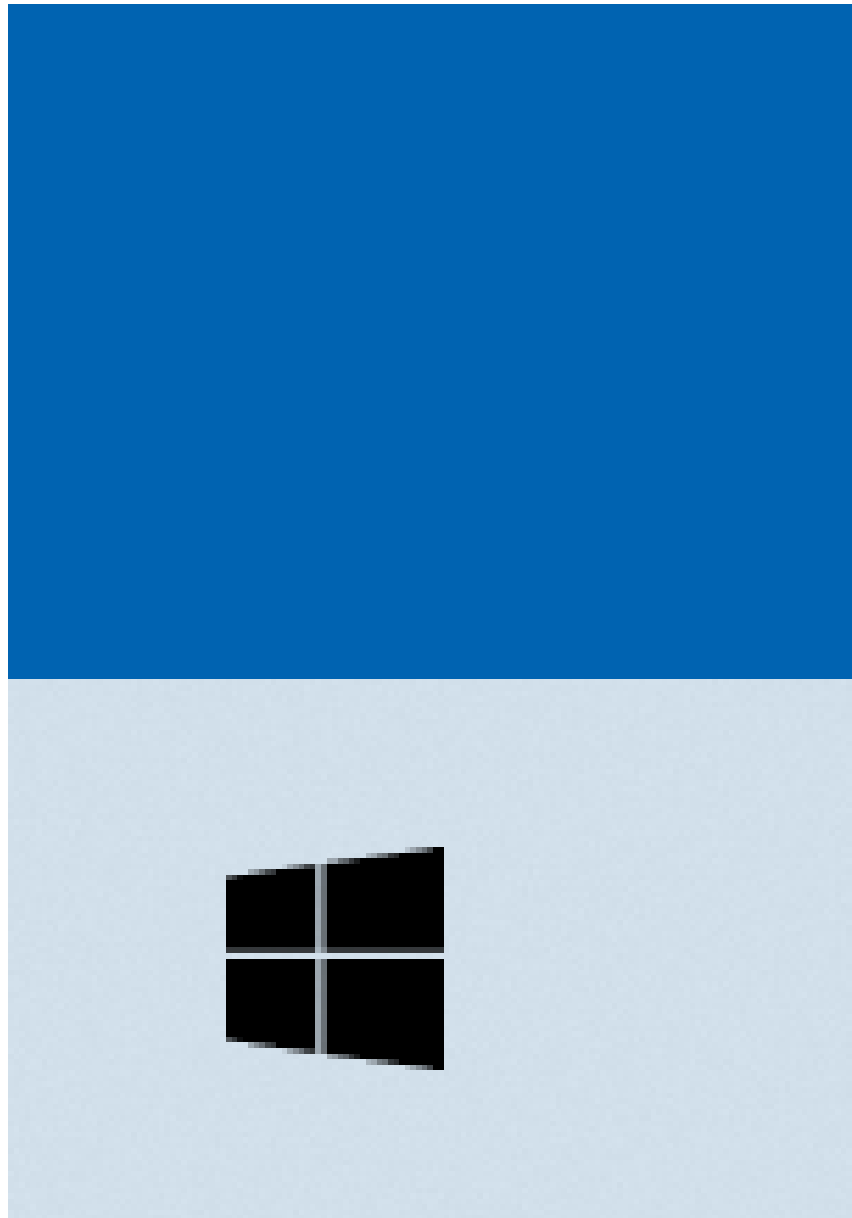


Recycle Bin



System tray area containing icons for network, volume, and battery, followed by the time and date display.

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Recently added


 GIMP 2.10.34

#

 3D Viewer

C

 Calculator

 Calendar

 Camera


 Clock



 Cortana




F

 Feedback Hub



G

 Get Help



 GIMP 2.10.34



Productivity



Microsoft 365...



Mail



Microsoft Edge



Photos



Microsoft To...

Explore



Microsoft Store







Weather



Solitaire & Ca...

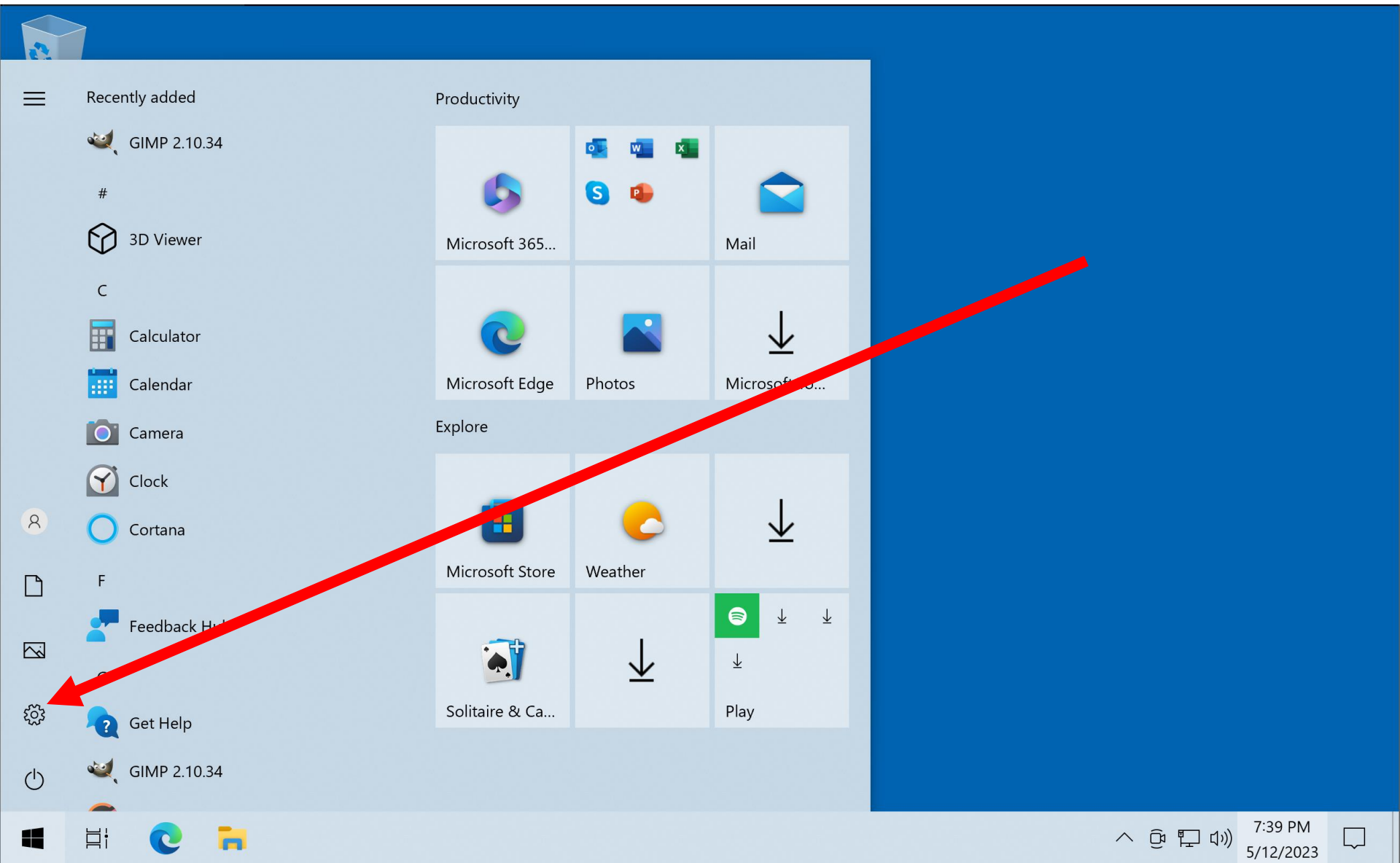


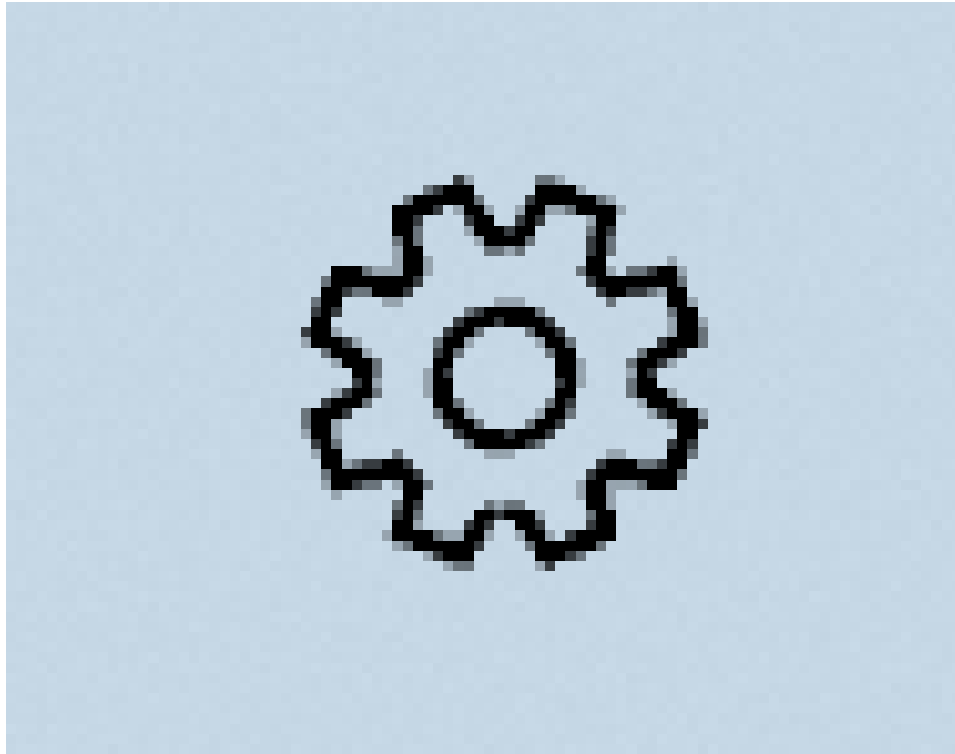
  

Play

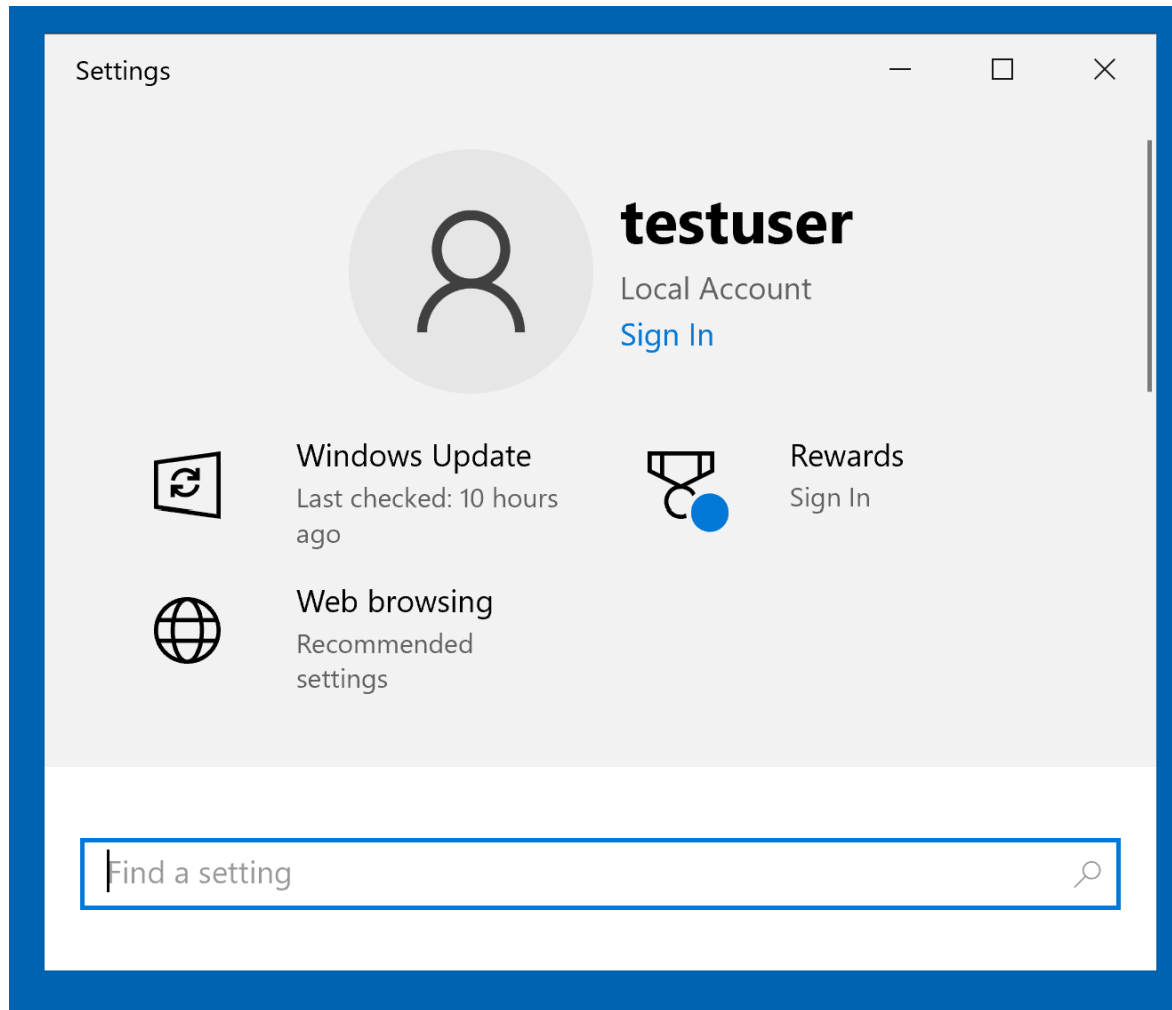


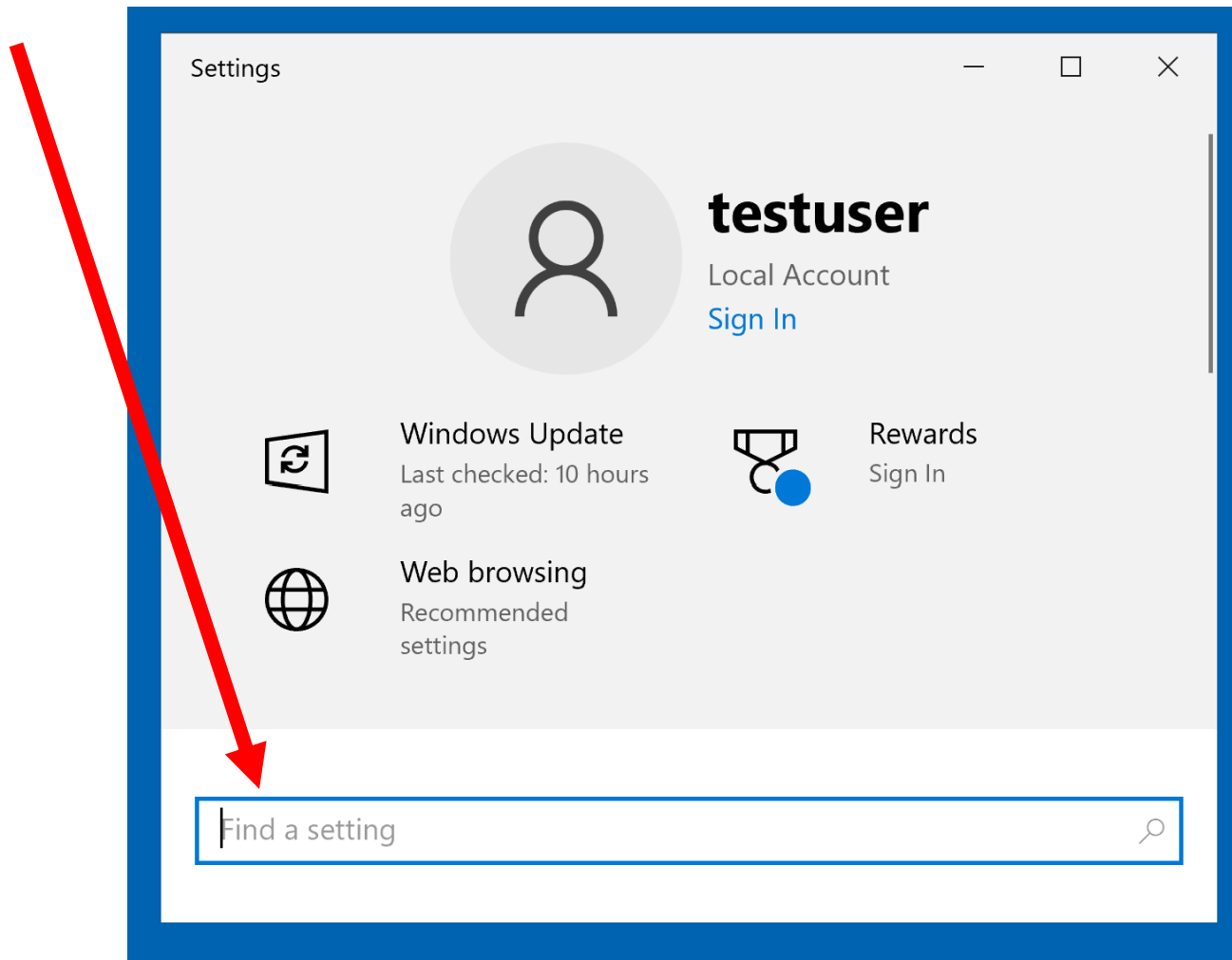
7:39 PM
5/12/2023

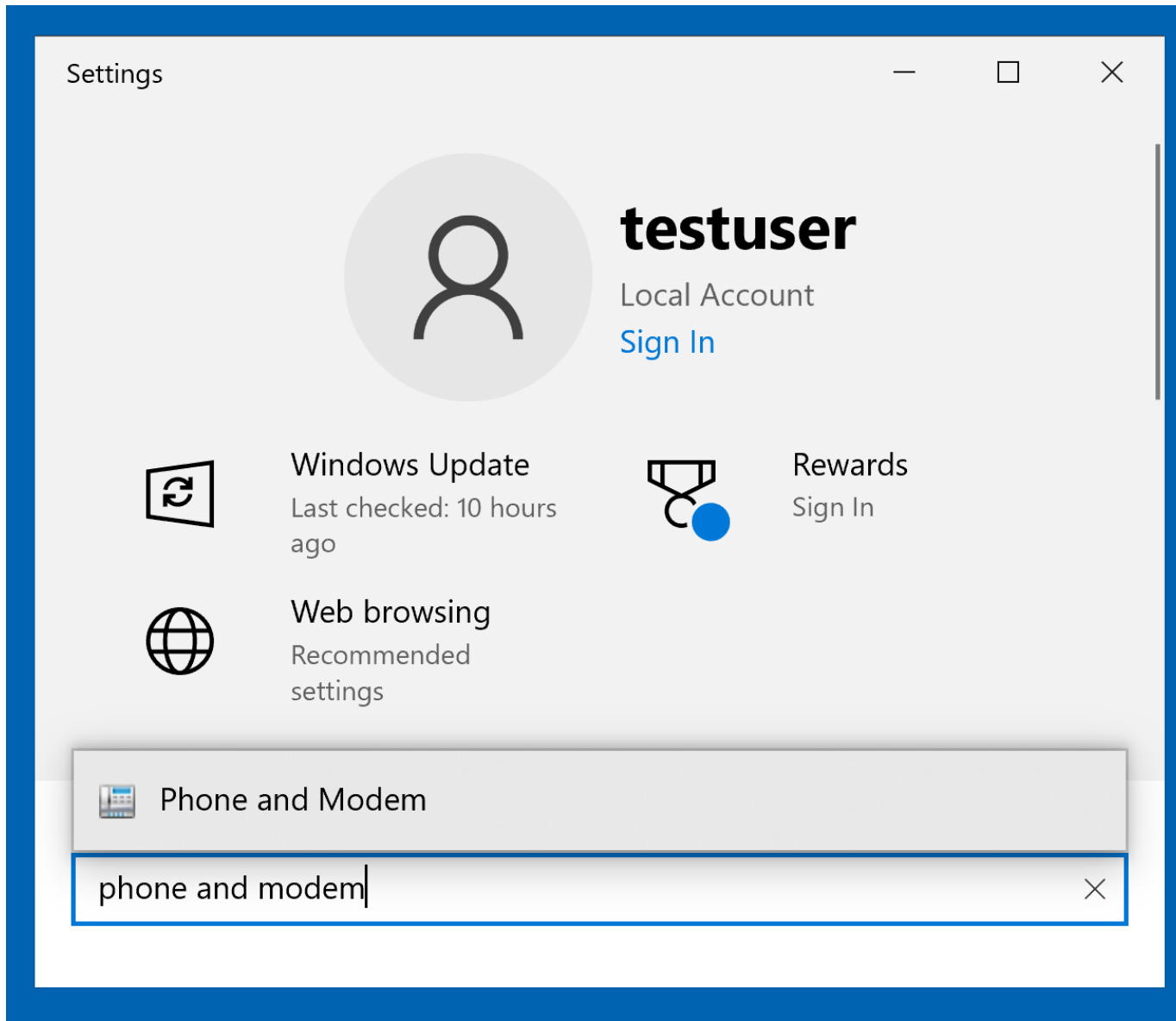


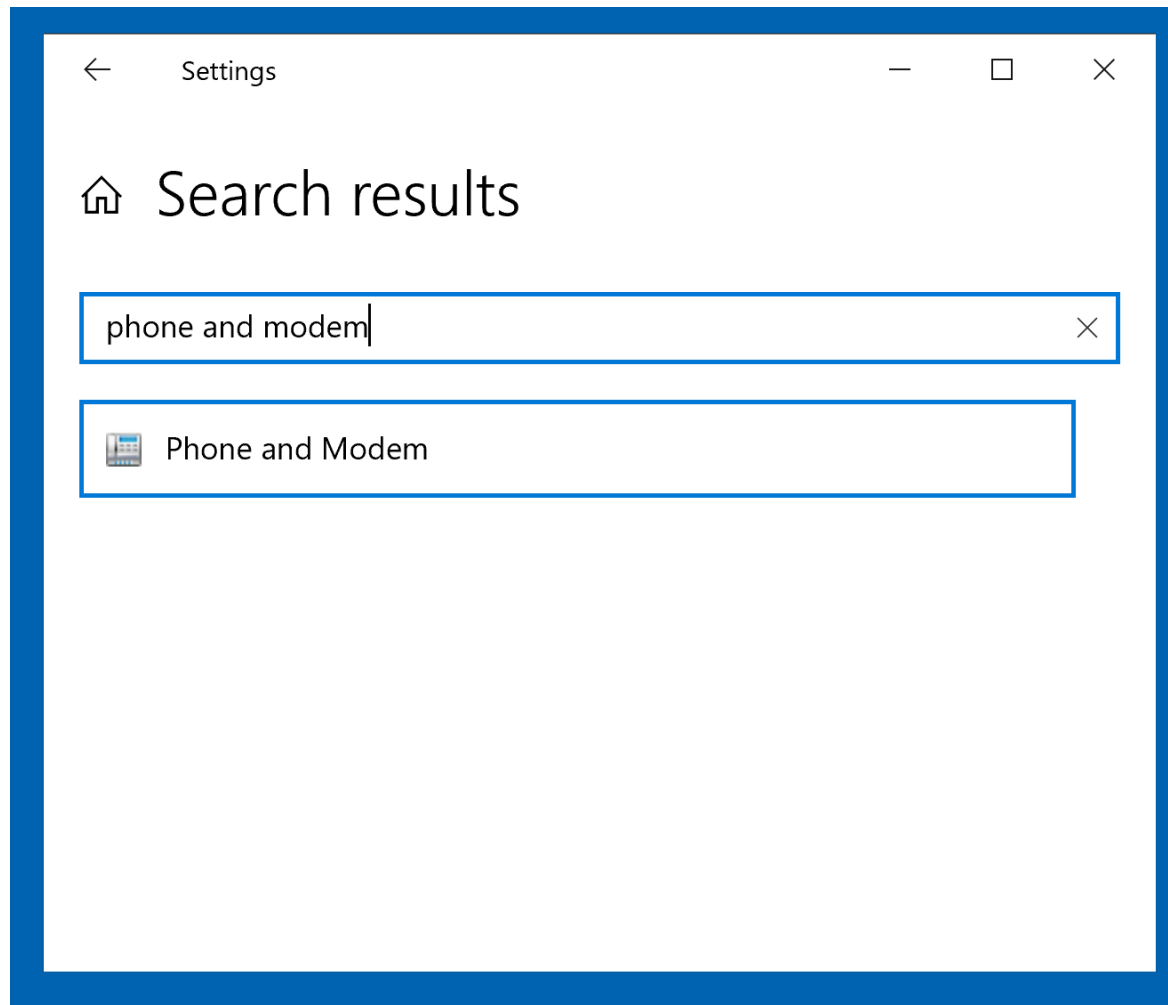


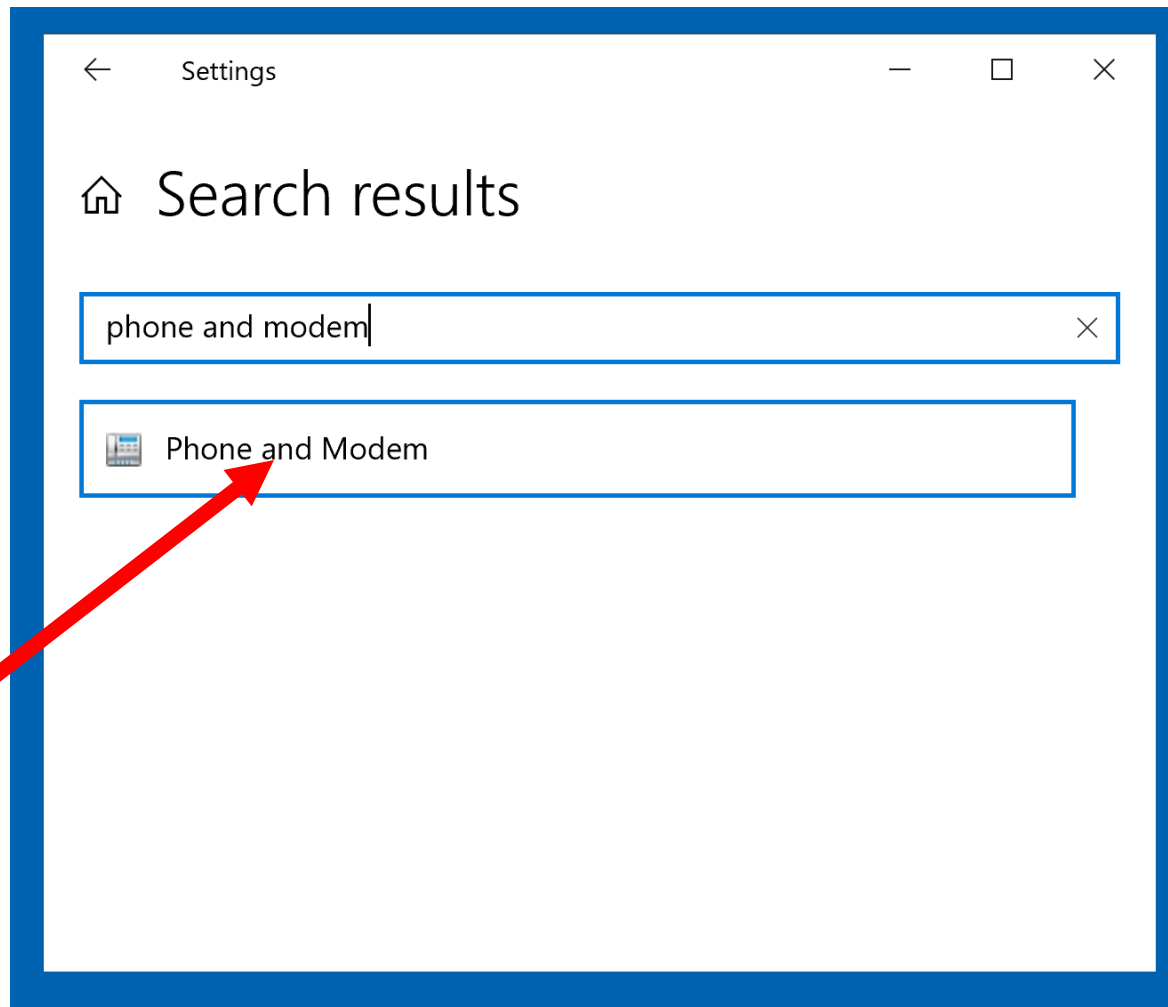


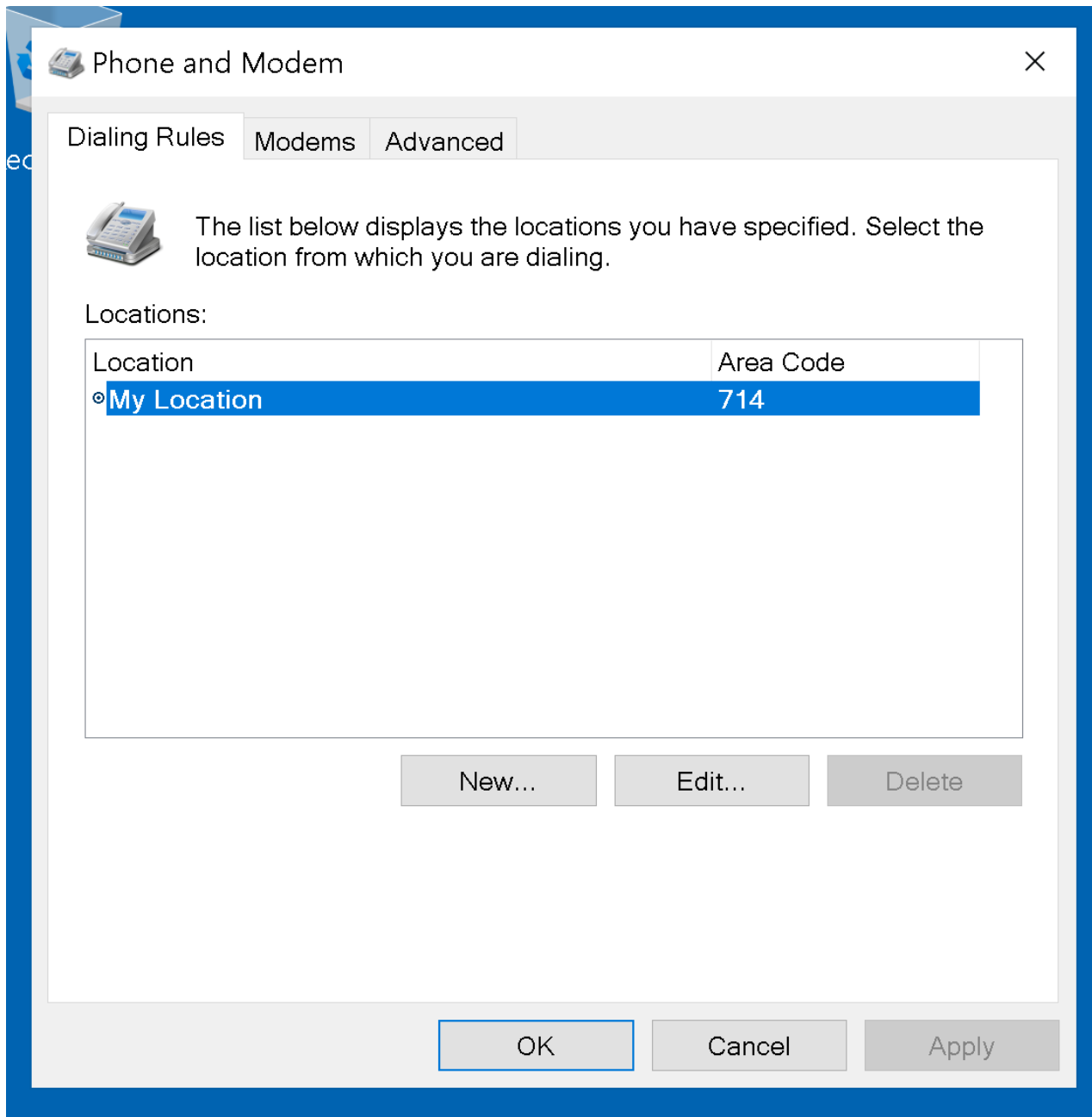


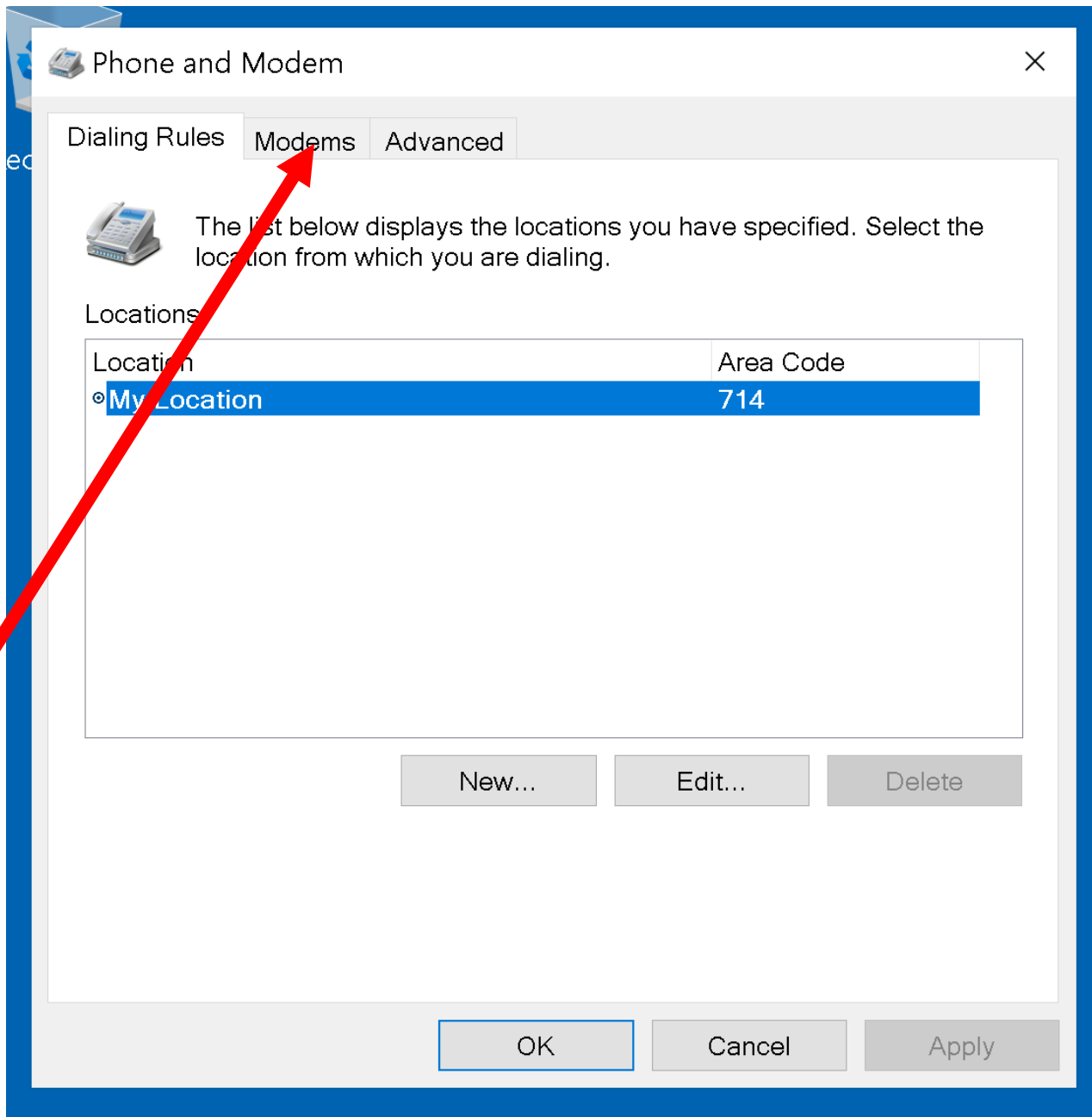






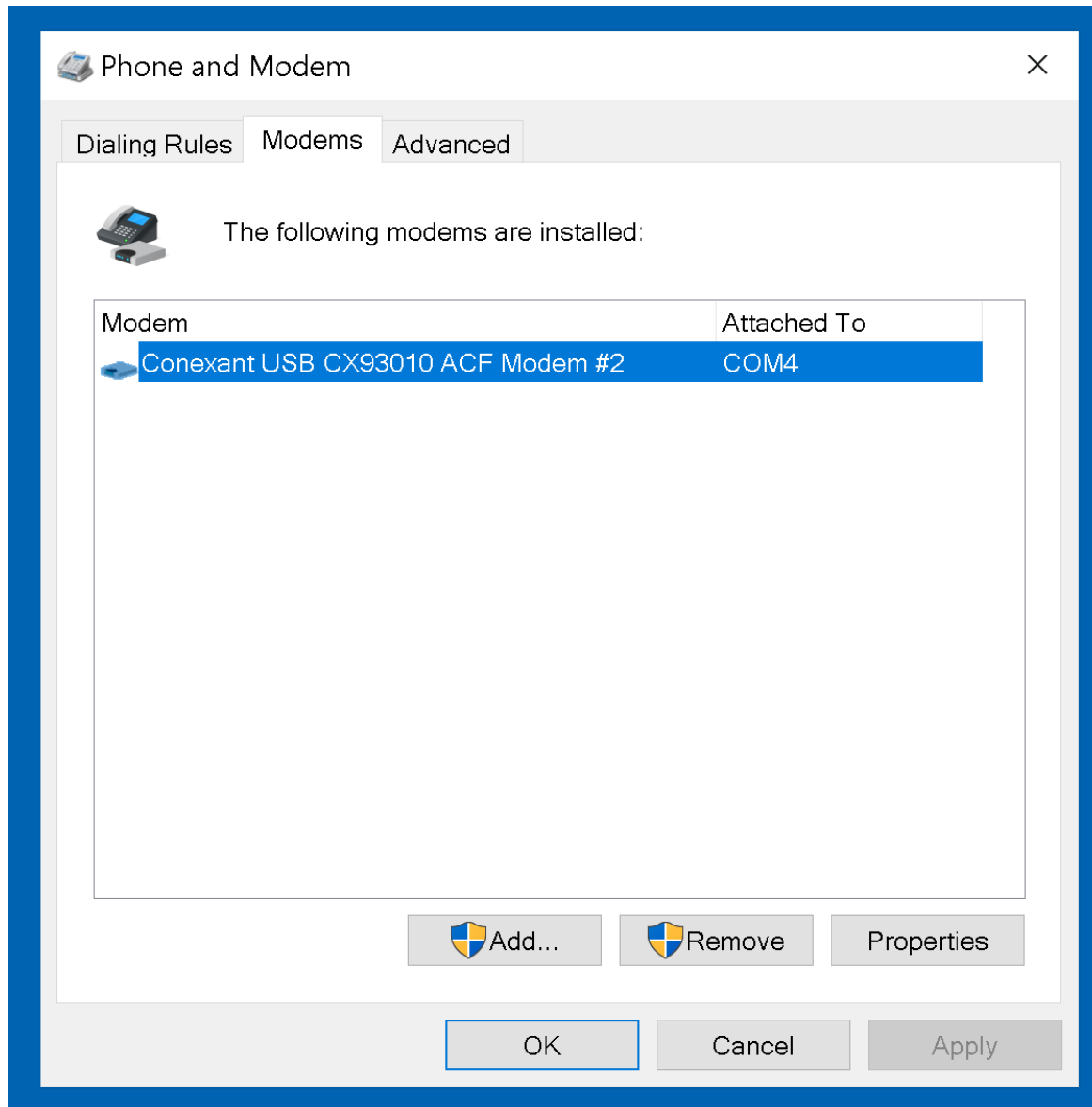


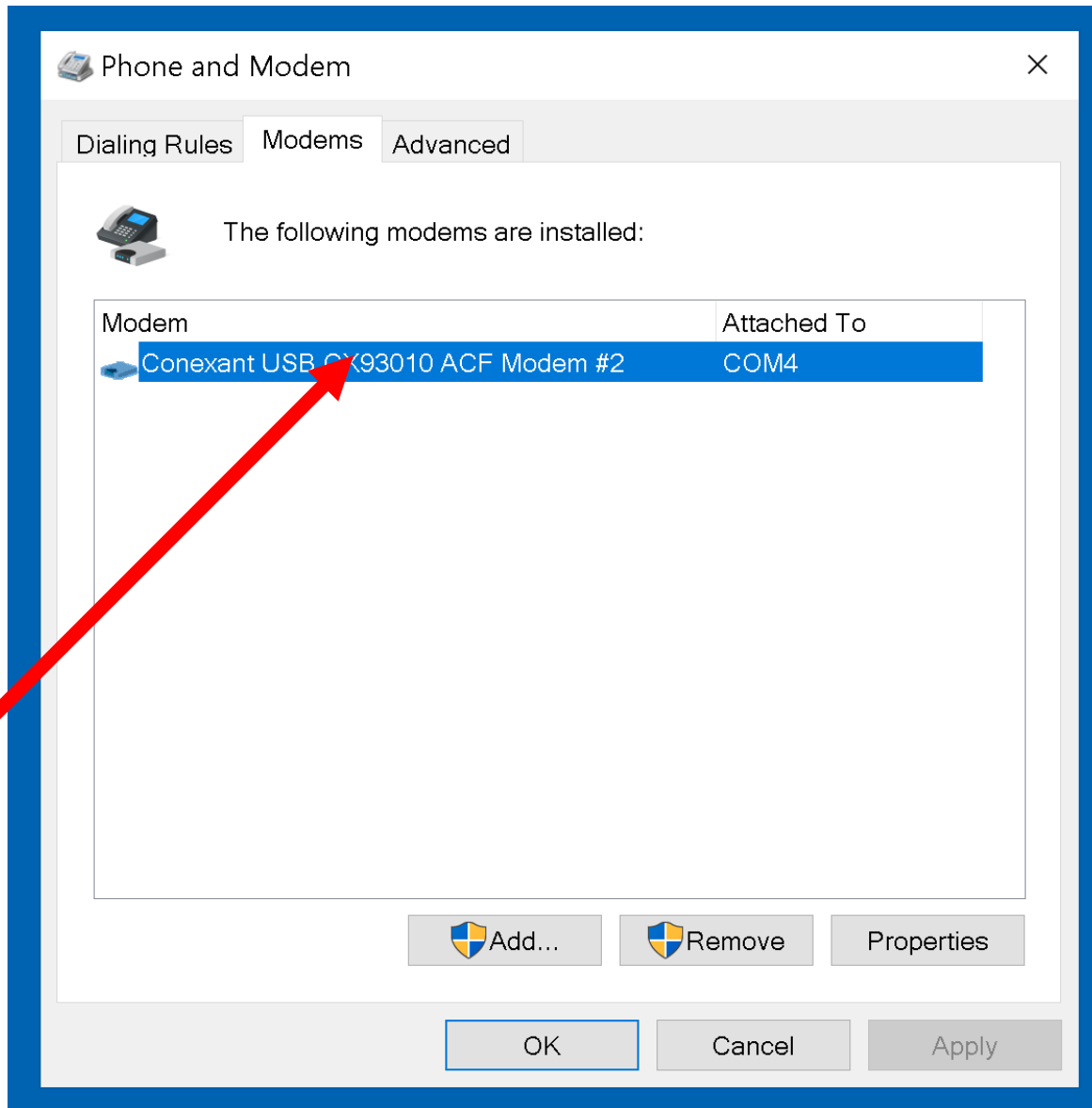




BIG STEP 400 (Disable "Wait for dial tone") (continued)

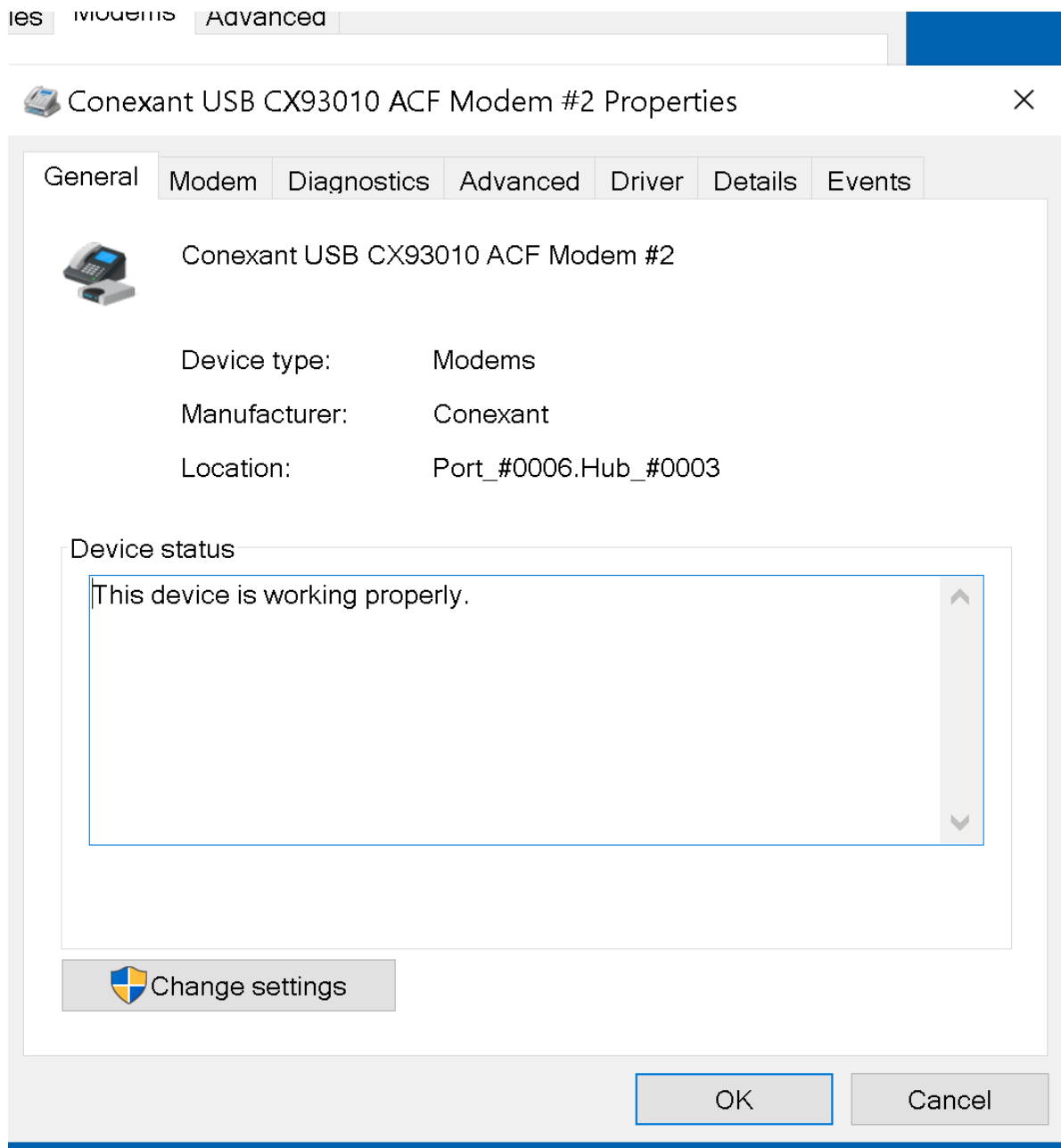
- Small Step 403:
Double-click on the newly-installed modem:

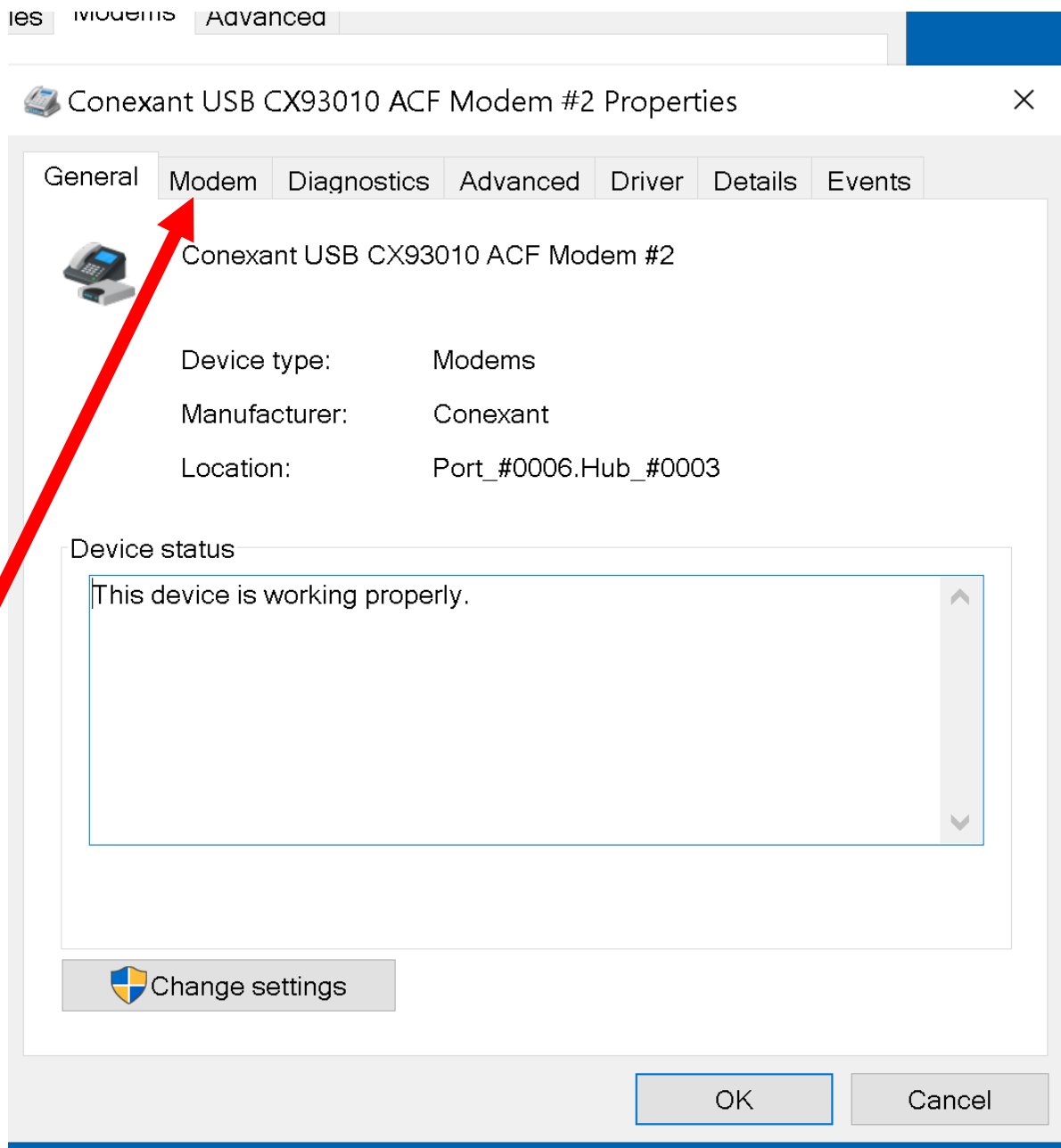




BIG STEP 200 (Disable "Wait for dial tone") (continued)

- Small Step 404:
Double-click on the "Modem" tab:

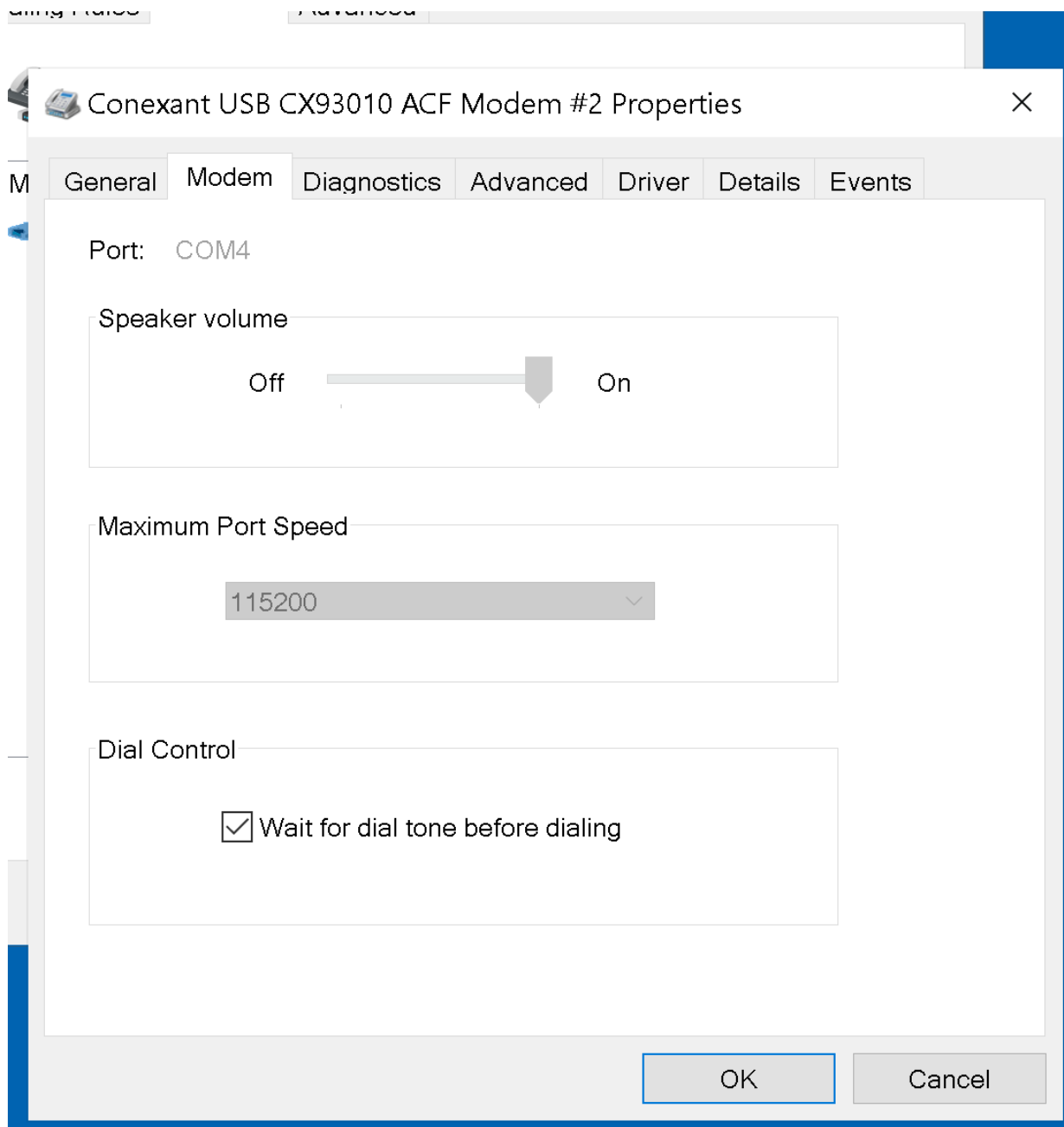


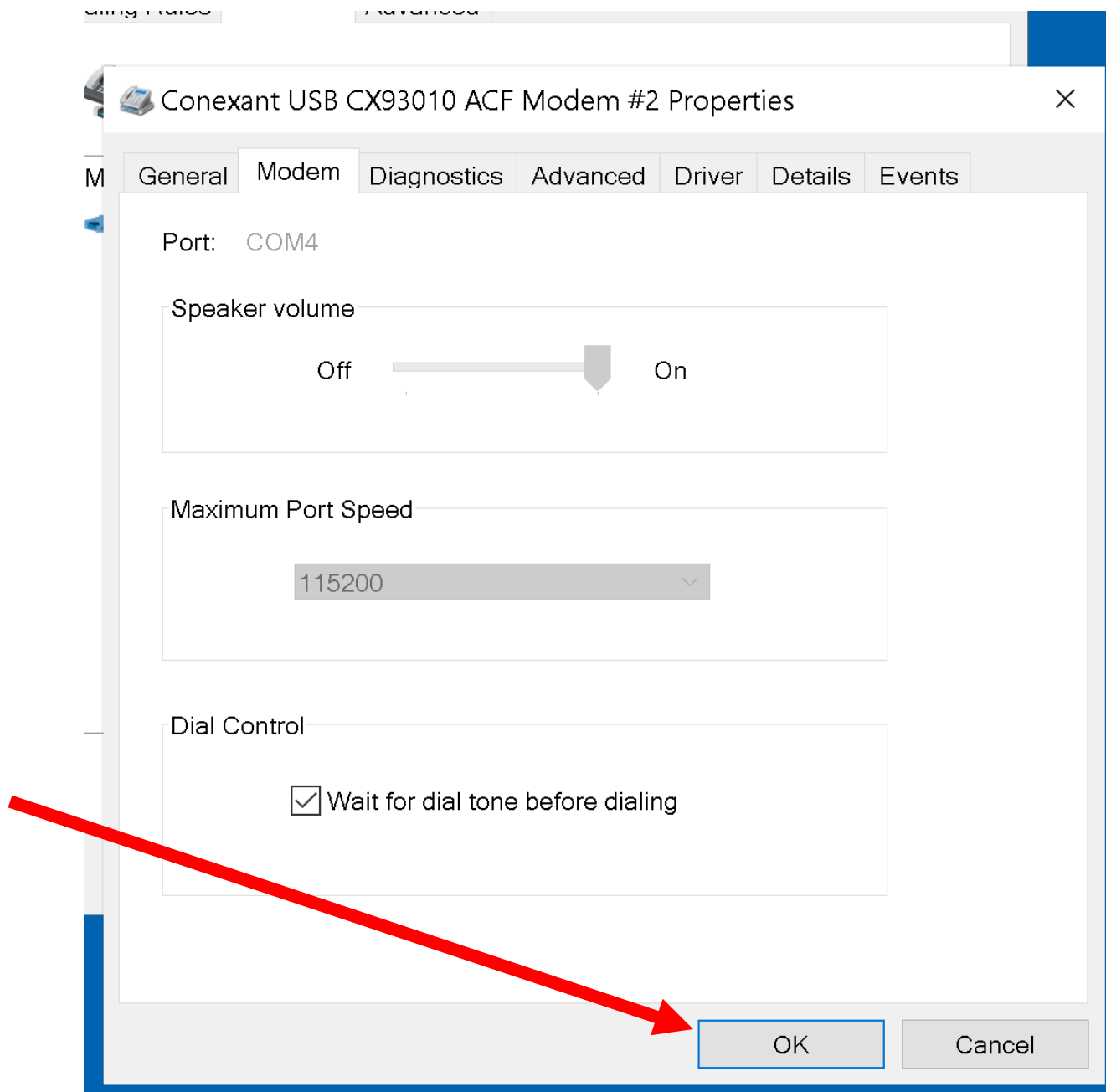


BIG STEP 400 (Disable "Wait for dial tone") (continued)

- Small Step 405:

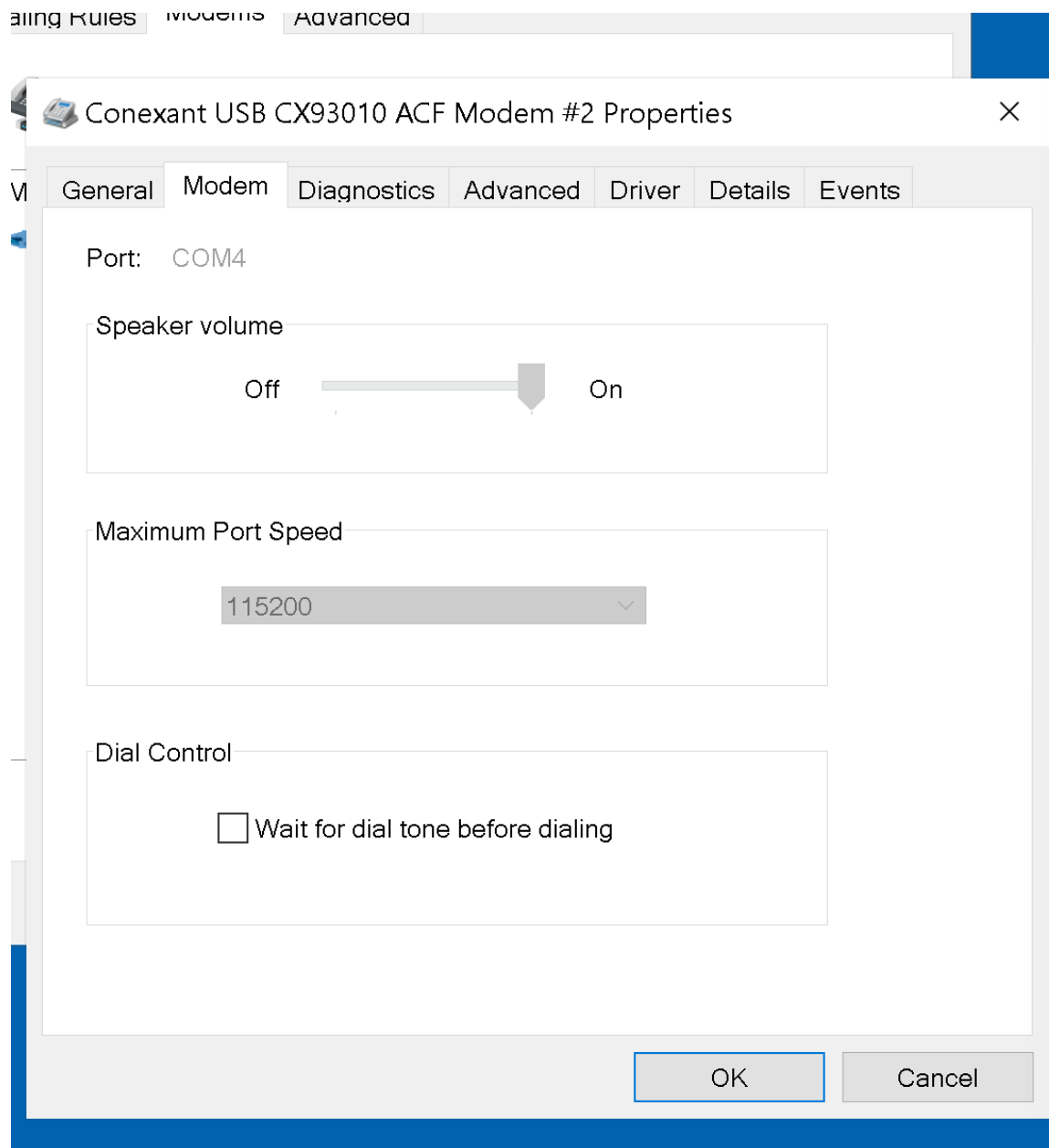
If you find a checkmark in the check box for "Wait for dial tone before dialing", click on it to remove it:

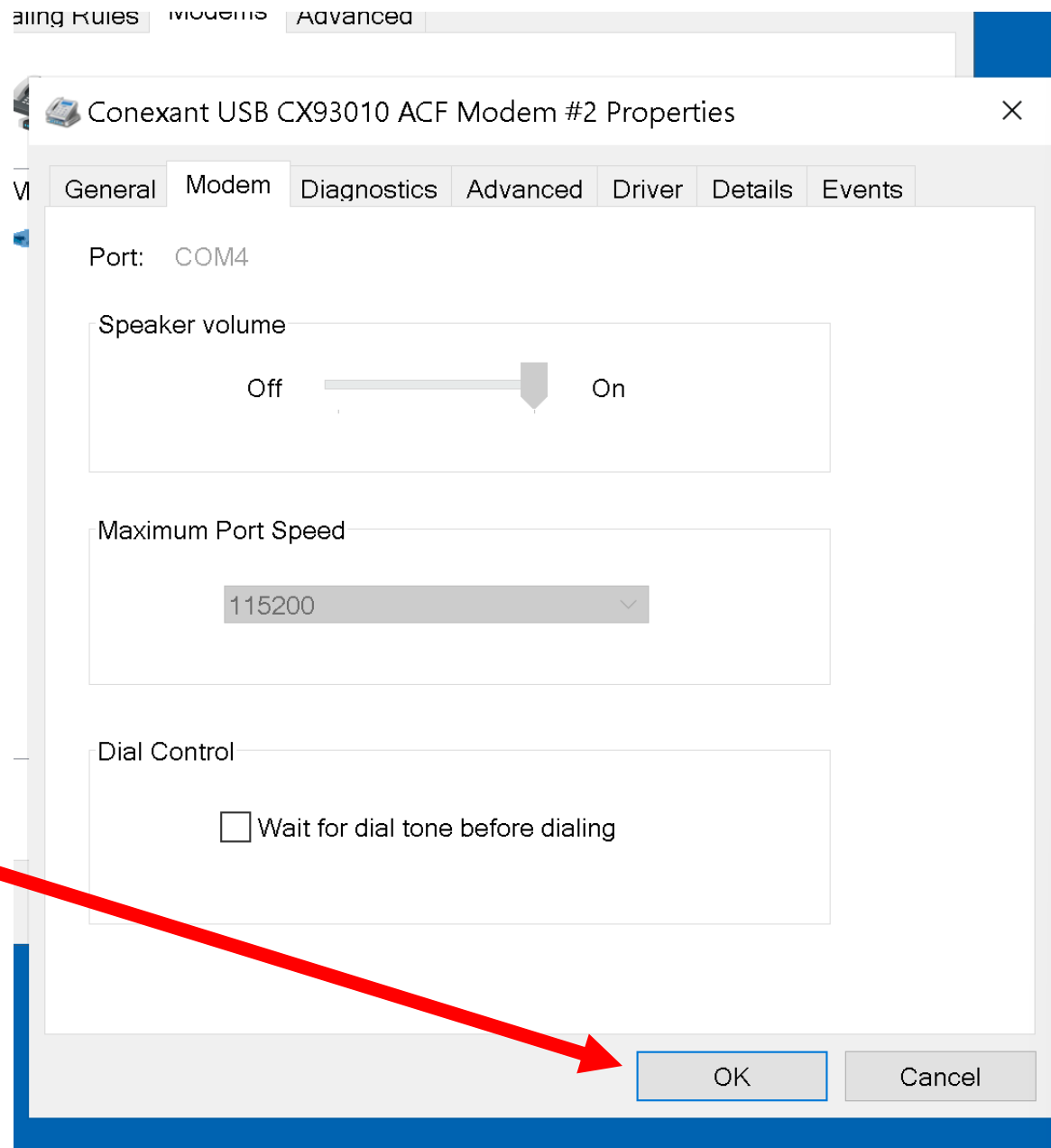




BIG STEP 400 (Disable "Wait for dial tone") (continued)

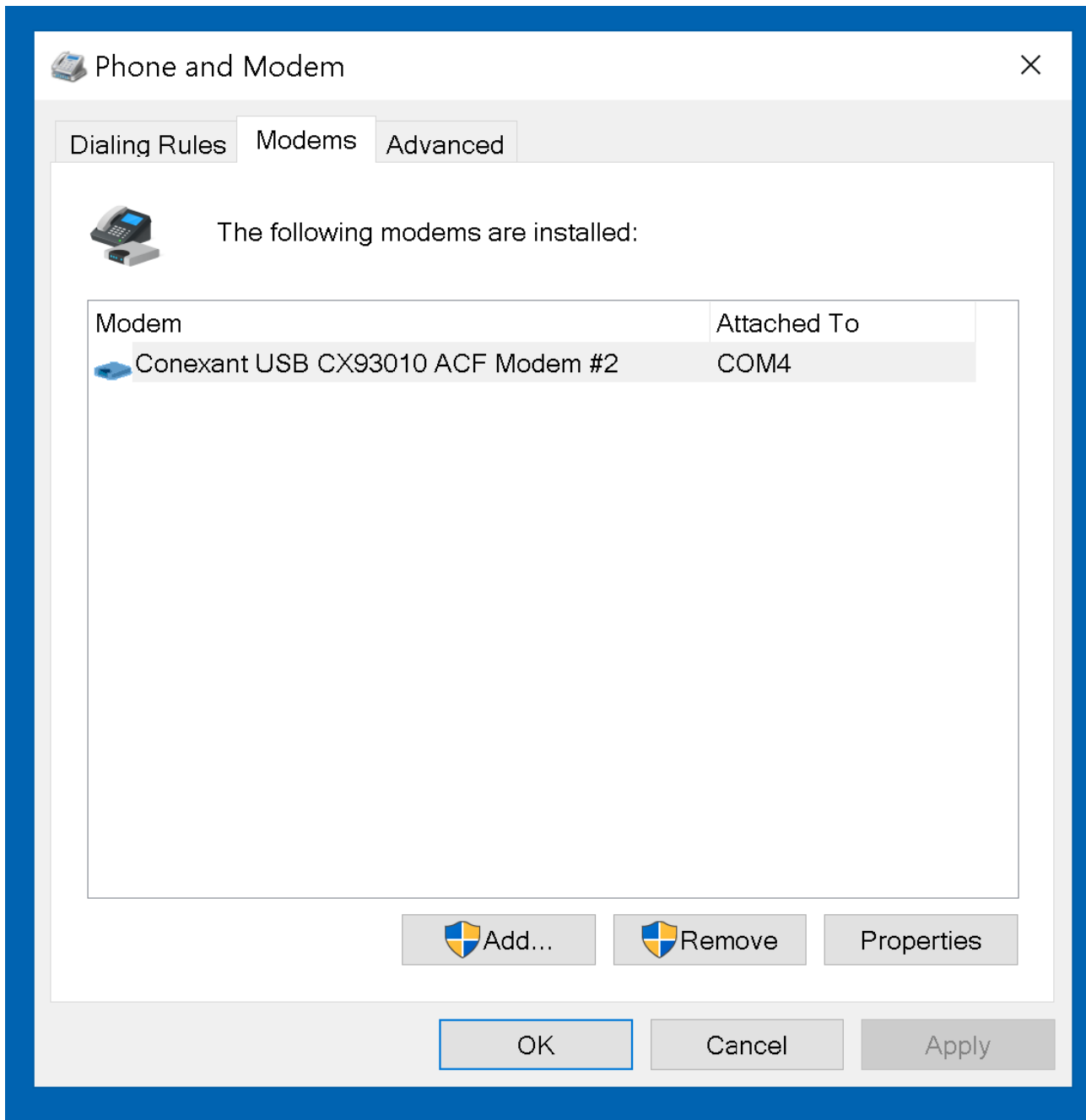
- Small Step 406:
Click on the "OK" button:

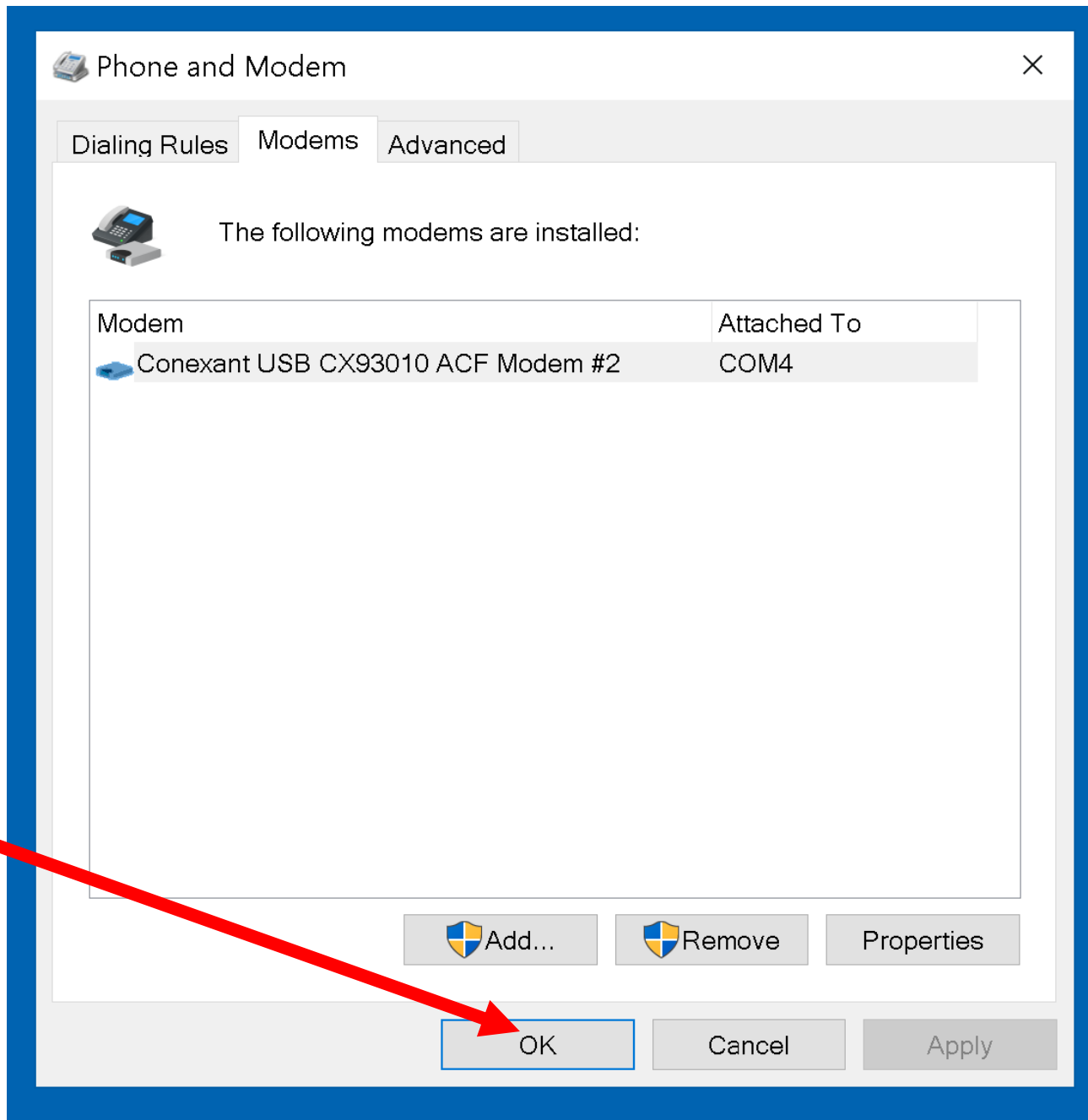




BIG STEP 400 (Disable "Wait for dial tone") (continued)

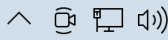
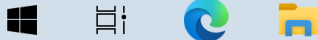
- Small Step 407:
Click on the "OK" button:







Recycle Bin



8:44 PM
5/12/2023



