



Getting Started Guide

Before installing TruBlu™, you should be familiar with your Bluetooth® enabled computer controller device and how to connect to Bluetooth components. Depending on your computer's operating system and Bluetooth software, the appearance and location of the Bluetooth control panel may vary. Refer to your computer controller device and Bluetooth user guides.

Note that your computer controller software should be launched after setting up TruBlu.

1. Using a standard NavCom serial cable (P/N 94-310059-3006 or 94-310090-3003), set the baud rate of the TruBlu capable NavCom GPS receiver COM1 port to 19200 baud.
2. Remove the serial cable and insert TruBlu into the COM1 port ensuring that the TruBlu connector notch lines up with the red dot on COM1.



3. Place your Bluetooth enabled computer controller device within 10ft of TruBlu. On your controller, select **My Bluetooth Devices** and then **Find Bluetooth Device**. (Depending on your operating system, this may be within **Advanced Features** for your

Bluetooth.) This will create a list of Bluetooth compatible devices within your vicinity, including other TruBlu enabled receivers. The TruBlu module you are trying to set-up will appear as **TruBlu XXXX** where XXXX represents the serial number. When you have confirmed that the serial number is correct for the unit you want to connect to, select this from the list as one of your Bluetooth devices.

4. In order to associate TruBlu with your controller, select the **Bluetooth Devices** control, then **Bond** (also called **Pair**) TruBlu XXXX to a serial port. Make a note of the serial port you have selected as it will be needed to complete the connection. Passkey/bonding authentication, disable any secure connection for the assigned Bluetooth serial port in your device. When authentication is still needed, use 'default' in small letters.

5. You can now launch your computer controller software. To connect to the TruBlu enabled NavCom GPS receiver, select the serial port that was noted above in step 4 and set the serial baud to 19200.

6. You can now control and command the TruBlu enabled NavCom GPS receiver. Data communication will be indicated by a flickering of the TruBlu blue LED.

Care and Maintenance of TruBlu

7. TruBlu can remain connected to your NavCom GPS receiver. When storing the GPS receiver within the carry case, make sure there is a cutout for TruBlu to fit.

8. TruBlu can be removed when the GPS receiver is powered on or off. Grasp the plastic housing firmly and pull straight out from the COM1 port without twisting.

9. When TruBlu is fully inserted into the NavCom GPS receiver COM port, it is water resistant and complies with FCC and CE regulations.



Frequently Asked Questions

What is the TruBlu™ accessory?

TruBlu eliminates the data cable between a TruBlu capable NavCom GPS receiver and your Bluetooth® equipped computer controller. The TruBlu accessory contains Bluetooth certified components to permit cableless operation between Bluetooth equipped computer controllers and NavCom GPS receivers with the latest NCT-2100D GPS engine. TruBlu is a small module 41 mm x 28 mm x 22 mm (1 5/8" x 1 1/8" x 7/8") powered by the COM port of a NavCom NCT-2100D equipped GPS receiver and features a flashing blue LED to indicate cable-less data communication.

Which NavCom GPS receivers will work with the TruBlu™ accessory?

TruBlu requires the latest NavCom GPS technology, the NCT-2100D engine, to be fitted. The following receivers have the NCT-2100D engine installed.

TruBlu™ Capable Receiver List	
NavCom GPS	Serial Numbers
NCT-2030M	5001 and above
SF-2040G	5001 and above
SF-2050G	5001 and above
SF-2050M	5001 and above
RT-3010S	5001 and above
RT-3020S	5001 and above
RT-3020M	5001 and above

In addition, TruBlu can be used with all NavCom upgraded receivers that display a 'TruBlu™ Capable' label on the receiver back.

Can my NavCom receiver be upgraded for TruBlu™ inter-operability?

Yes, this is a factory hardware upgrade to the NCT-2100D which provides the latest GPS engine technology plus TruBlu inter-operability. The following receivers can be factory upgraded:

TruBlu™ Upgradeable Receiver List	
NavCom GPS	Serial Numbers
NCT-2030M	1000 to 5000
SF-2040G	1000 to 5000
SF-2050G	1000 to 5000
SF-2050M	1000 to 5000
RT-3010S	1000 to 5000
RT-3020S	1000 to 5000
RT-3020M	1000 to 5000

Contact your NavCom authorized representative for upgrade options.

*TruBlu is a trademark of NavCom Technology, Inc.
Bluetooth is a registered trademark of the Bluetooth SIG.*

Will TruBlu™ interfere with the Spread Spectrum Radio used in the NavCom RT-3010S and RT-3020M?

The spread spectrum radio in the RT-3010S and RT-3020M uses the 2.4GHz license-free frequency band which is also the same as the TruBlu accessory. NavCom tests have shown no RTK or cableless performance issues while operating with TruBlu..

Which Bluetooth® equipped computer controllers have been tested with TruBlu™?

The following Bluetooth equipped controllers have been tested with TruBlu equipped NavCom GPS receivers:

- Compaq iPaq 3950
- Dell D600 Laptop
- Juniper Systems Allegro CX
- BlueRadios Bluetooth USB Adapter

TruBlu contains Bluetooth certified components which are compatible with other Bluetooth certified devices for data communications.

Will TruBlu™ increase data speed?

TruBlu has been factory configured at 19,200 baud to work with the NavCom GPS receiver COM port hardware. This allows command and control message flow plus up to 10Hz position updates or raw data observables. TruBlu has not been designed to download the internal memory card or for rapid position updates.

How does TruBlu™ use impact the battery life of the NavCom SF-2040G and RT-3010S?

TruBlu is a low power cableless solution. When the SF-2040G or RT-3010S are powered by NavCom batteries, power life will be reduced by less than 10%.

What working distance can I expect between TruBlu™ and a Bluetooth® device?

TruBlu has been used at more than 100ft (30m) distance from a Bluetooth device. Performance will depend upon the environment.

Can I install TruBlu™ in COM2 instead of COM1 on the NavCom GPS receiver ?

Yes. COM2 will need to be set to 19200 baud prior to installing TruBlu.