Tester for Otoplastics

With Bluetooth® Control (BLT)

Bluetooth and Installation instructions
Windows

2025

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1 INSTALLING A BLUETOOTH® LEAKAGE TESTER

1.1 Introduction

This article walks you through the process of adding a Bluetooth® *leakage tester* to your Windows computer, as well as gives you some directions to take care for the process to run smoothly.
This guide is intended for installations with software version 3.00 or later

1.2 Before adding your Bluetooth® *leakage tester* to your computer

Connect to the Internet if the computer is not already connected. Windows should be up to date.
This installation guide is based on Windows 10/11, for both 32-bit and 64-bit systems.
If your computer does not already have a built-in Bluetooth® radio you can, instead, use a USB Bluetooth® dongle or micro adapter.
You will find generic information on how to set up a Bluetooth® dongle in §3.7.

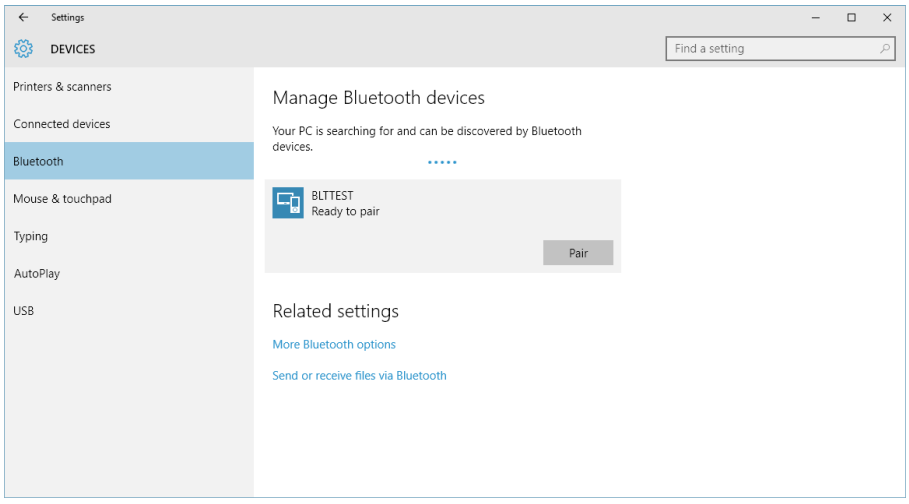
1.3 Finding and *pairing with* your Bluetooth® *leakage tester*

This paragraph describes the process of first finding and then pairing a Bluetooth® *leakage tester* to your computer. The whole Bluetooth® installation may take several minutes.

There are many ways to instruct Windows to start looking for Bluetooth® devices in its neighbourhood, we used this one (W10):

- switch-on your *leakage tester*
- select the Start button, then select **Settings** > **Devices** > **Bluetooth**. a list with all kinds of Bluetooth® links will show up
- turn on **Bluetooth** > select your leakage test device > **Pair**

the settings window should now look like the picture below showing (amongst other devices) your *leakage tester*:



- tap **Pair**, and after a short while the device 'BLTTEST' will be **Paired**
- close the settings window

1.4 When a *paring code* is required

With the introduction of the Secure Simple Pairing (SSP) mechanism for testers delivered from 2014, there is no need to enter a pairing code anymore. As implied by the name, this method just works: the tester will be paired to your system and you only have to close the window. During this procedure your device will be configured by Windows and after a while will be ready for use.

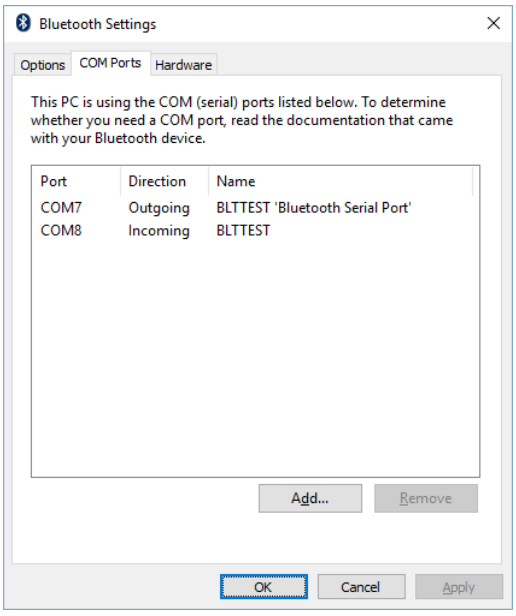
If it turns out that pairing code is required, just follow the instruction on the screen and when ask for a pairing code enter 1234, this is the pairing code your *leakage tester* comes with.

1.5 Looking up the *serial port* number*

The last thing to do before the hardware installation is complete is to find out through which port Windows wants to communicate with your *leakage tester.* The controlling software (discussed in chapter 2) needs to know this *(serial) port number*. You have to determine the port nr. only once. As an alternative, in the controlling software versions from V3.00 one has the opportunity to detect and store the port-number automatically.

Because one might want to look up this more often a description on how to find the *port number* is given here.

- select the Start button, then select **Settings** > **Devices** > **Bluetooth** and a list with all kinds of Bluetooth® links will show up
- select **More Bluetooth options** below 'Related settings'
- select the tab COM ports



the number of the serial port you need to fill in is the *Outgoing* port number for your tester (BLTTEST in the example) which appears to be 7.

* not relevant when using automatic detection, s/w from v3.00

2 INSTALLING THE BLUETOOTH® CONTROL SOFTWARE

2.1 Downloading the control software

Your dealer will inform you where you can download the software package for your Bluetooth® *leakage tester* from their support section on their website. The *zip*-file name depends on language and version. At this time the Dutch version reads **OtoTestBLT3.40_*NL*.zip**. Download the file at:
https://www.cursorengineering.nl/de/software-win-bluetooth-de/
You may choose another language (English ***EN*** or German ***DE***) if you like.
There is a separate app for the Windows Universal Platform (UWP).

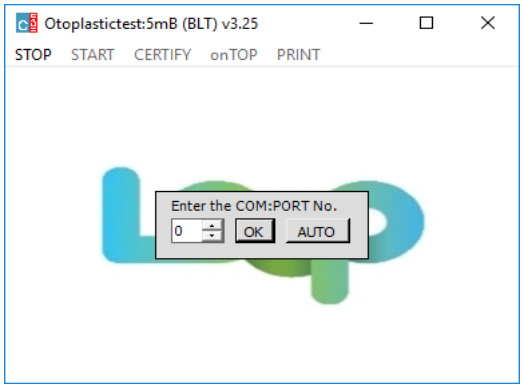
2.2 Software location and un*zip*

The software bundle you are about to install is so-called portable software. This means the software is installed into a directory as a whole and relevant files for running the software live inside this directory. The software bundle doesn't change registries nor writes it to some system directory. Therefore you can install (or, better, unpack) the software to any directory you want and run it from there. So create a new directory where you want the software for your *leakage tester* to reside, e.g. C:\LeakageTester. Transfer the *zip*-file from your download directory to this new folder and un*zip* it. The application resides in the subdirectory C:\LeakageTester\OtoTestBLTv3.40_*NL* and is called OtoTestBLT[.exe]. You may want to create a shortcut on your desktop. If there is a need to control more than one *leakage tester* with the same computer, you can create separate directories for each tester and distinguish between them by choosing different names for the shortcuts.

2.3 Bringing the software into operation

Double-click on 'OtoTestBLT' and, *before* the following screen appears, Windows:

- might ask you for a **Security Warning** confirmation: *confirm*
- might want you to update the **.NET Framework**: *follow the instructions to upgrade the framework to at least version 4.0, then return to this paragraph (§2.3)*



Click **AUTO** and the software will find your BLT tester and store the port number (in the file COMx.ini) for you. As an alternative enter the number for the *Bluetooth® serial port*; this is *the* port number through which the computer communicates with your tester. Read *§1.5* Looking up the *serial port* number on how to find this number, and click **OK**.

This completes the installation of your *leakage tester* on Windows.

3 TROUBLESHOOTING BLUETOOTH® CONNECTIONS

3.1 Common pitfalls

Ideally, adding Bluetooth® devices should be that easy, but there are some "pitfalls" to look out for. Check the following items to troubleshoot Bluetooth® connections:

- make sure that your PC or laptop actually has Bluetooth®, check §3.2 below
- make sure that your Bluetooth® is turned **ON**; any proprietary software might have a switch that enables or disables it
- make sure that your *leakage tester* is powered-on and make sure that the LED power indicator is on (fresh batteries maybe)

3.2 Finding out if you have (built-in) Bluetooth

There are many ways to find out whether you have Bluetooth® services available on your computer or not (is my computer Bluetooth-enabled?), we mention two methods here, one:

- check the taskbar at the bottom of the screen to find out if there is a (Bluetooth®) logo, sometimes it's in a container: *Show hidden icons*

or, two:

- as described in paragraph §1.3: select the Start button, then select **Settings** > **Devices** , a list with all kinds of DEVICES appears, Bluetooth should be amongst them

3.3 Looking up the *Bluetooth® serial port* number

The controller software needs to know the *Bluetooth® serial port* number, to find out this number follow the steps as described in §1.5.

3.4 Incoming or Outgoing Serial Port

Not very likely, but if Windows, at a certain point, wants you to decide between a so called **Incoming** or **Outgoing** 'serial port' always select the **Outgoing** port.

3.5 Control software cannot make a connection

If your *Leakage Tester* is visible in the **Devices and Printers** panel in section **Devices (n)**, but the control software is not able to connect to the tester, or the connection is instable, check the following:

- check whether you are using the control software for Bluetooth® testers and not, accidentally, for USB testers
- check the whole Bluetooth® chain, read §3.1 *Common pitfalls*
- when using separate dongles, sometimes the generic Windows *Bluetooth driver* is not good enough; try to install the micro adapter (dongle) with the software that came with it (CD/DVD-disk, download), or try to find the appropriate software on the manufacturer's site to build a precisely matching Bluetooth-stack.

3.6 Changing USB ports when using USB *Bluetooth®* dongles

When you utilize a USB Bluetooth® dongle (which happens to be removable) you should be aware of the fact that Windows expects to find your *leakage tester* via the dongle **in the very USB port** you **initially** installed your device on. If you remove the dongle and plug it in next time in another port, Windows will re-install it and will, come up with a different *Bluetooth® serial port*-number. In this case, when you start the controlling software, the message (e.g.) 'no tester detected on COM5' will show up. Terminate the control software, now you have two options, one:

- connect the dongle to the original USB port
- resume

The second option is to let Windows reinstall the dongle. You will have to tell your previous paired leakage tester to communicate on the new port-number. To do this, proceed as follows:

- in the folder where your control software resides (C:\LeakageTester\OtoTestBLTv3.40_*NL*) you will have to remove the file 'COMx.ini'
- determine the new port number (§1.5), or use the AUTO function
- start the control software and enter the new port number or click AUTO

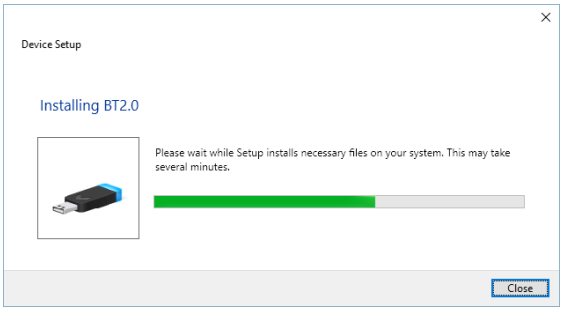
3.7 USB Bluetooth® dongle installation

3.7.1 *Before plugging-in the dongle*

Determine which USB port on your computer you want to connect your Bluetooth® *dongle* to. If your computer has USB ports on the front, consider using one of those if you plan to frequently connect and disconnect the dongle although it is a tiny device. **Important:** most dongles remember the USB port they were plugged-in and installed on, read §3.6 for further information on this issue.

3.7.2 *Installation*

Windows is equipped with a good USB Bluetooth® dongle plug-and-play *wizard*. Just plug-in your dongle to the computer's USB port of your choice. Windows 10 should show the window below



and starts searching the internet for specific drivers needed for your *dongle*. When the window closes the installation is complete and a Bluetooth option will be visible in the *Devices* list (§1.3).