WINCOR CASSETTE TESTER

User Manual



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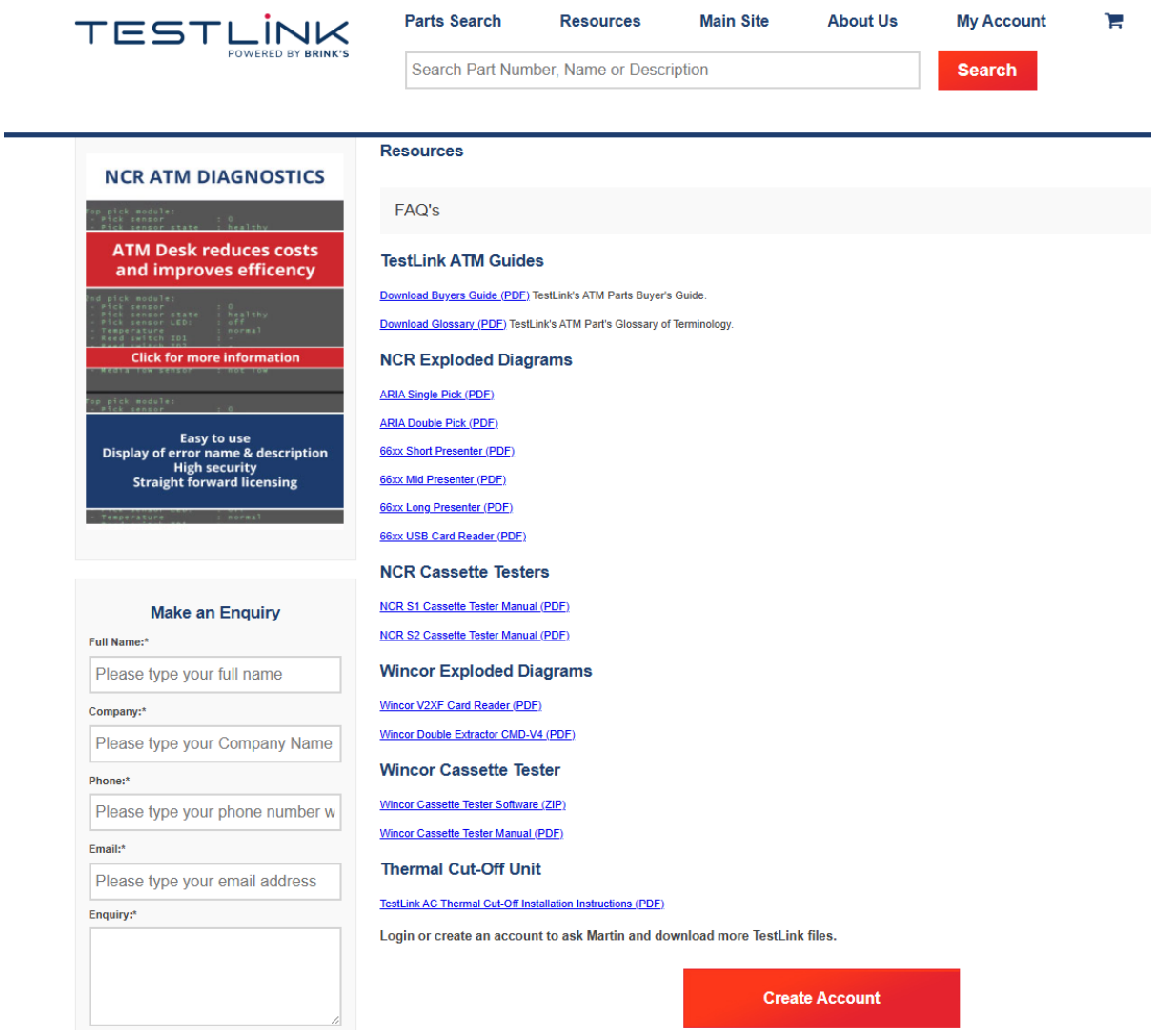
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Software Download

Download the **application software** and **user manual** from the TestLink website

Visit: https://www.atmparts-testlink.com/tap-resources.php



Select the “**Wincor Cassette Tester**” drop down menu to access the download links.

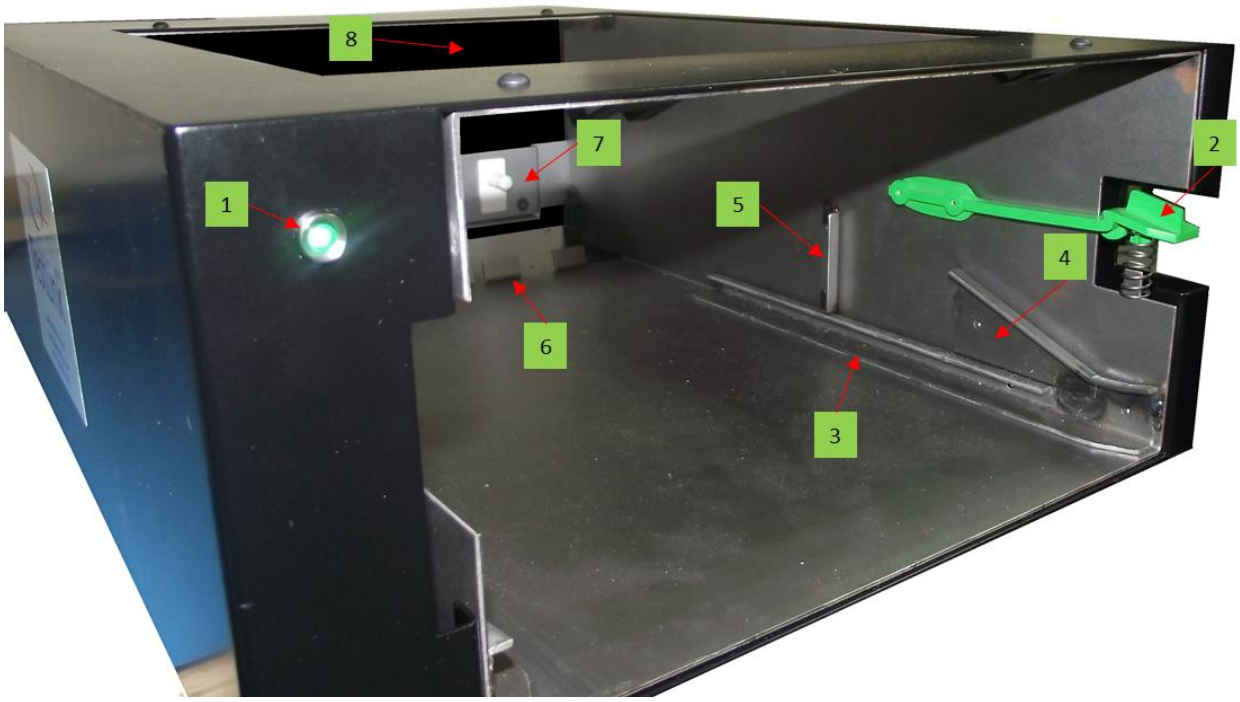
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1 Key features



1 Power indicator
2 Cassette release lever
3 Main cassette guide rail
4 Shutter pin guide
5 Shutter stop guard
6 Lower shutter stop lip
7 Note plate and note pusher limit switches
8 Inspection window

To perform a quick test, **see section 8**.

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2 Power and USB connection

2.1 Connections

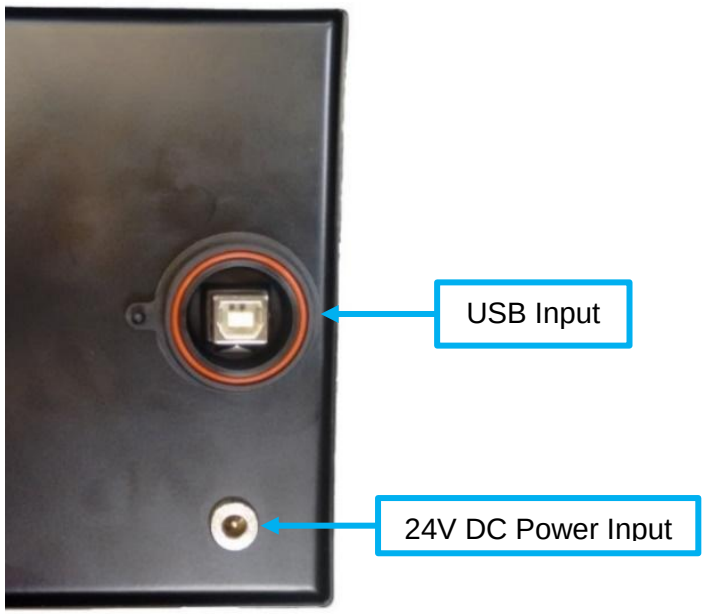


Figure 1: Cassette Tester USB and Power Inputs

To set up the TestLink Wincor Cassette Tester for use:

1. Connect the supplied USB cable to the USB input at the back of the device.
2. Connect the supplied 24V AC Adapter to the DC Power input.
3. Connect the AC Adapter to a wall socket.
4. Switch on the supply at the wall socket. The green power indicator at the front of the Cassette Tester will illuminate.

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2.2 Determine COM Port

On the computer connected to the Wincor Cassette Tester, the **COM port number** associated with the Cassette Tester needs to be determined. To do this, follow the instructions below:

1. In Windows 10 or 11, click the **Start** button, type ***Device Manager*** and select from the list.

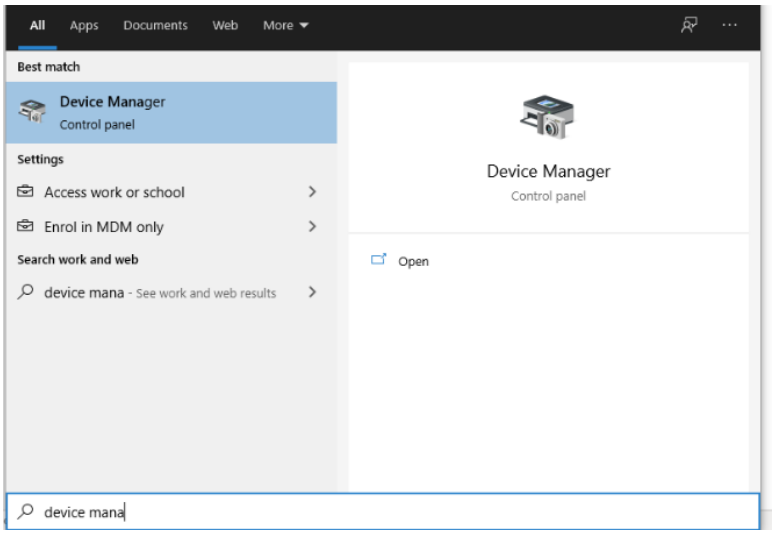


Figure 2: Device Manager

2. Once Device Manager is open, expand the "**Ports (COM & LPT)**" section. A **USB Serial Device or USB Serial Port** should be present, as shown in Figure 3. This is the Wincor Cassette Tester.

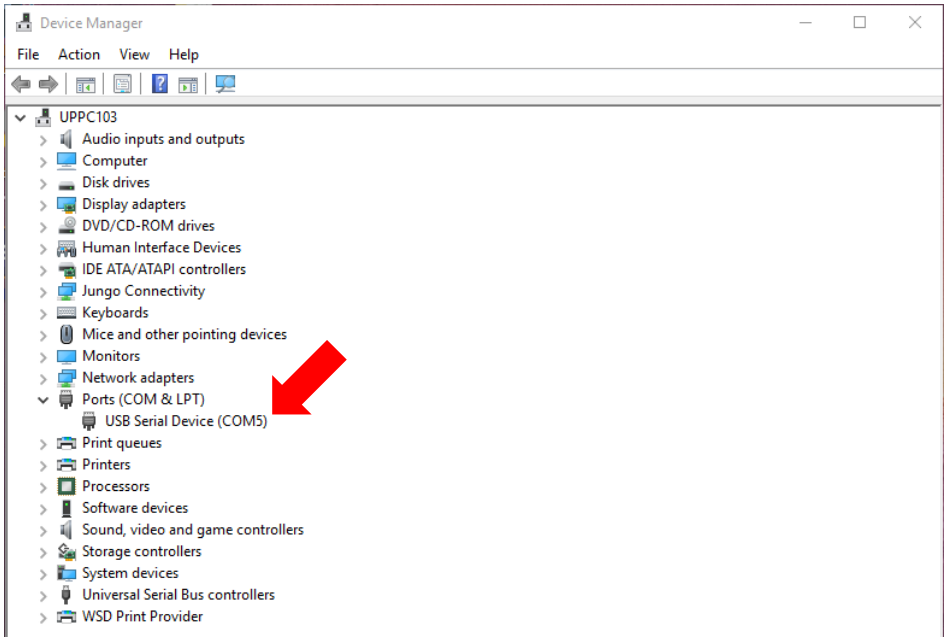


Figure 3: USB Serial (COM) Port in Device Manager

3. **Make a note of the COM port number assigned to the device.** If it is not present in the list, disconnect the USB cable and follow the driver installation steps in section 3.2.

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3 Installing prerequisites

3.1 .NET Framework ®

The application software for the Cassette Tester requires the Microsoft™ .NET Framework® version 4.0 or greater to be installed. **Most recent editions of Microsoft™ Windows ®** (such as **Windows 8.1, 10 and 11**) will have version 4.5 or greater **already installed**, therefore this step can be skipped.

However, if a version lower than 4.0 is currently installed, the .NET Framework® 4.0 installation wizard provided in the software download package must be run before installing the application software. Extract the zip file to a suitable location and double-click the file "**dotNetFx40_Full_x86_x64.exe**" to start installation (Figure 4). Follow the on-screen instructions to complete the installation. Once installation is complete, go to **Section 4**.

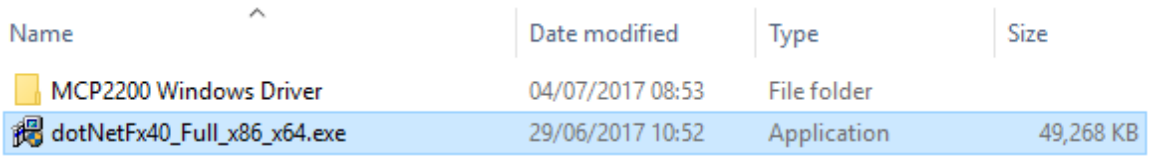


Figure 4: NET Framework Standalone Installer

3.2 FTDI™ USB VCP Driver

The steps in section 3.2 are applicable to the Wincor Cassette Tester V3 only.

On most versions of Microsoft™ Windows®, the FTDI™ USB Virtual COM Port (VCP) driver for the Cassette Tester should be **automatically installed** when the Cassette Tester is connected to the PC, therefore this step can also be skipped. The driver installation process could take a few minutes. The driver can also be manually installed from the FTDI™ website if necessary.

Visit the website at the address: https://ftdichip.com/drivers/vcp-drivers/

Under Virtual COM Port (VCP) Drivers, click on the link to download the Windows driver installer setup executable. Launch the executable and follow the on-screen instructions to complete the installation.

3.3 MCP2200 USB to Serial Driver

The steps in section 3.3 are applicable to earlier versions of the Wincor Cassette Tester.

On most versions of Microsoft™ Windows®, the MCP2200 USB to Serial driver should be **automatically installed** when the Cassette Tester is connected to the PC. The driver can also be manually installed using the supplied driver installation wizard in the software download.

Extract the zip file to a suitable location, navigate to **MCP2200 Windows Driver → Driver Installation Tool → x64** (or **x86** for 32-bit Windows installations) and double-click the file "**McphCdcDriverInstallationTool.exe**" to start the installation (Figure 5). Follow the on-screen instructions to complete the installation.

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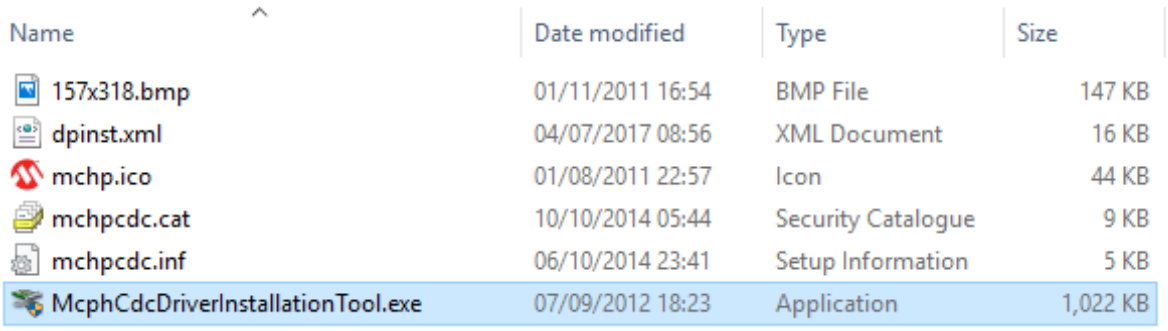


Figure 5: MCP2200 Driver Installer

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4 Installing the application software

To install the application software:

1. Extract the zip file to a suitable location. Double-click the file "**WN_Cassette_Tester_Setup_*vx.x*.exe**" to begin installation.
2. Click "**Next**" and follow the on-screen instructions within the setup wizard (Figure 6).



Figure 6: Installation wizard

Once installation is complete, go to **Section 6**.

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5 Testing

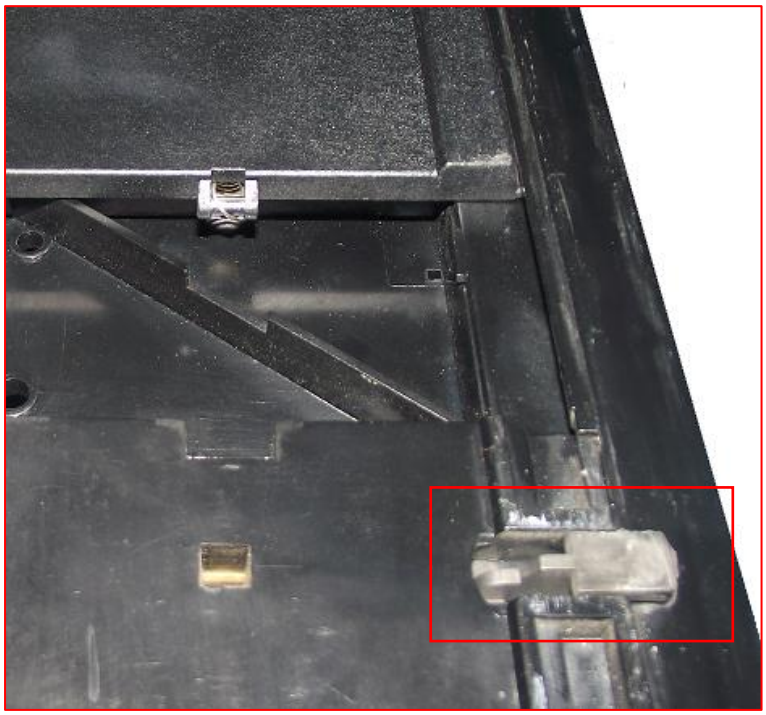
The following tests can be performed on Wincor Nixdorf cash cassettes using the Cassette Tester:

- Operation of the main shutter and opening springs.
- Shutter stop guard to prevent defective cassettes being fully inserted.
- Adapted guides to test the operation of the shutter and tamper indicator.
- Operation of the lower shutter plate.
- Operation of the two lower release lugs.
- Rear switch panel to test level movement of the note present plate and note pusher/pressure carriage.
- Inspection window to allow for visual examination of the mechanical movements under test (with cassette lid removed).
- With the supplied application software:
  - Read the current configuration of the cassette showing **denomination** and **value**.
  - Operate the **note pusher/pressure carriage** with a PASS or FAIL indication.
  - In Inspection Mode, **verify** the **currency** and **denomination** of several cash cassettes against pre-set values, for example when performing batch testing, with a PASS or FAIL indication.

5.1 Mechanical check

Check the physical condition of the cassette before inserting the cassette into the Cassette Tester.

1. Check the lower release lugs.

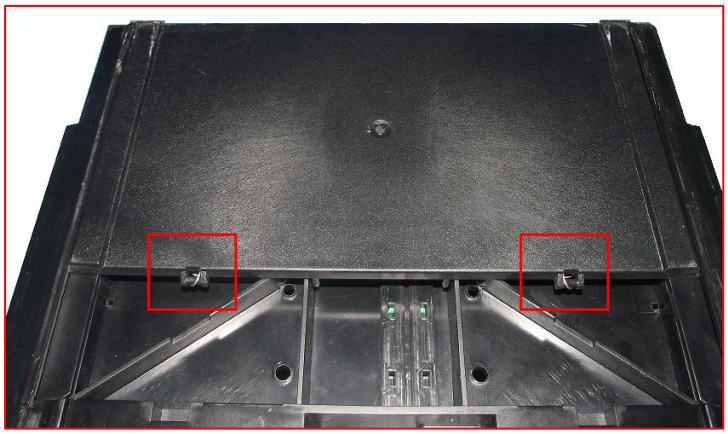


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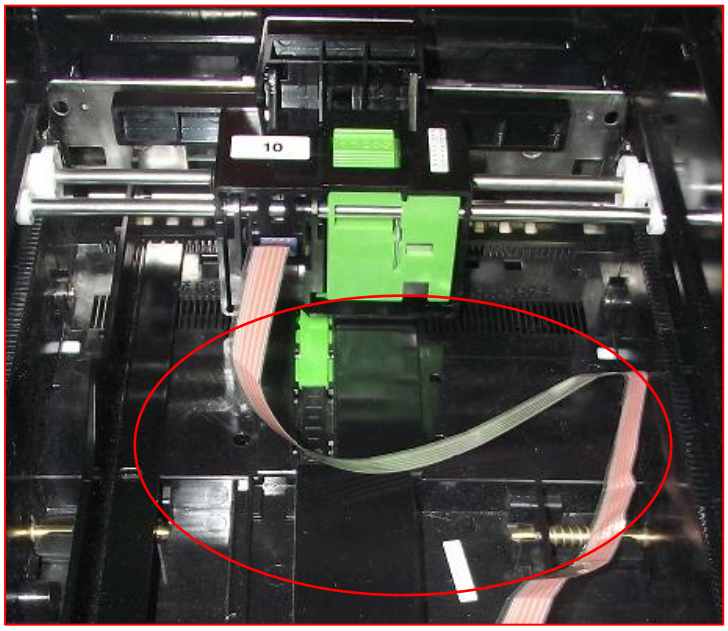
2. Check the lid latch operates correctly and security tab. Ensure that a handle is fitted.



3. Check the condition of the lower shutter.

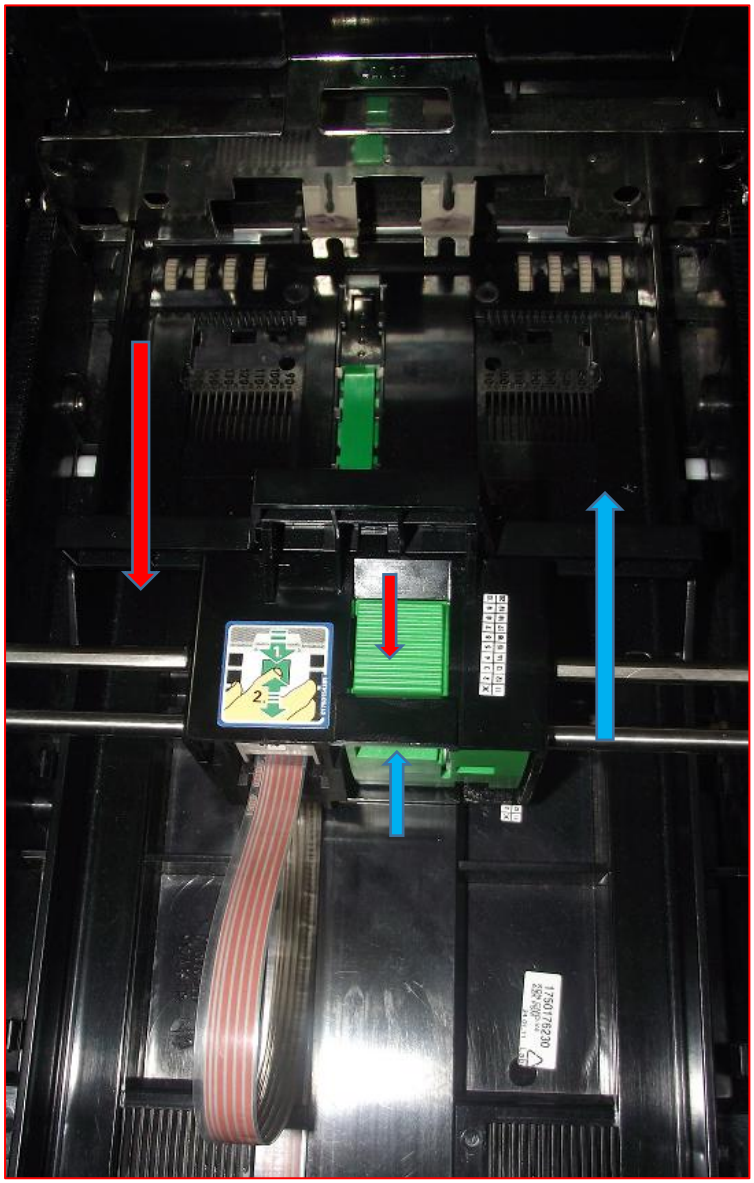


4. Check the condition of the internal ribbon cable.



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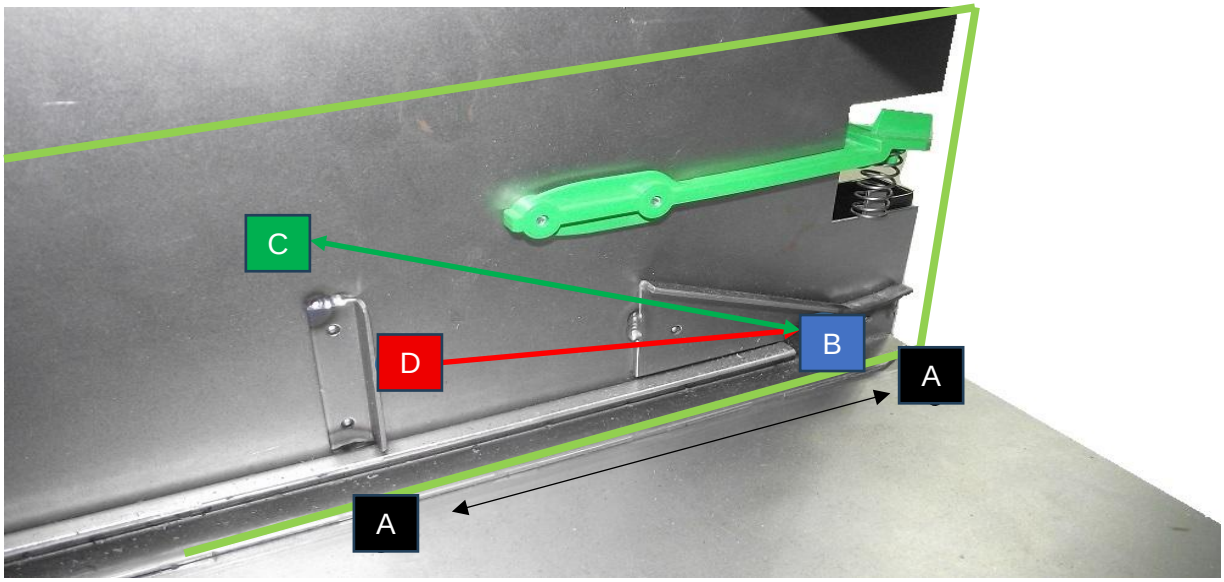
5.2 Testing the note pusher



1. Push and hold down the green gear release in the centre of the note pusher and move the unit to the middle of the cassette.
2. Slowly push on the rear of the note pusher moving it towards the shutter.
3. If the note pusher jumps when pushed or makes excessive noise, the gear assembly is defective and requires repair.
4. Remove the note pusher and service or repair.

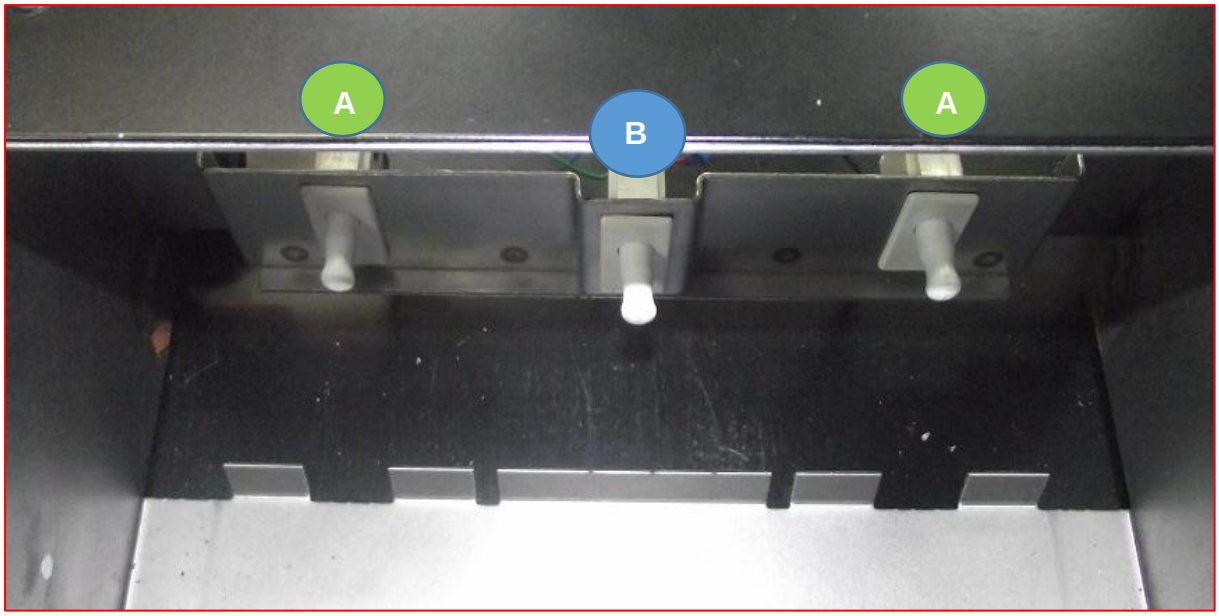
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5.3 Physical operation



- As the cassette is inserted the lower release lugs (A) are compressed by the lower base rail.
- This releases the two metal guide lugs either side of the cassette (B).
- A good shutter should spring fully open and follow path (C).
- A defective shutter where the shutter fails to open correctly will follow path (D).
- The shutter stop guard will stop the cassette from being inserted any further and prevent any damage occurring to the cassette tester.

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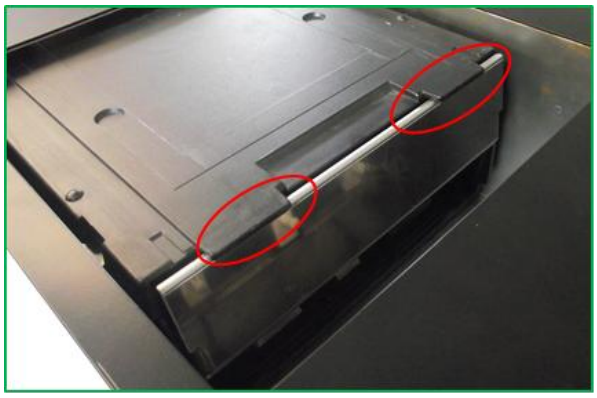
- The cassette tester has three switches (A and B) at the rear for confirmation of correct operation of the metal note plate and pressure carriage (note pusher).
- With a cassette that has passed the shutter insertion test, the software can perform a mechanical test of the note pusher (see section 6.7).
- The test will electronically move the note pusher (C) which will push the note plate to the rear of the cassette (D) registering with the two outer switches (A).
- The note pusher will continue to move until it registers with switch (B).
- The software will confirm with a PASS result or FAIL result.

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5.4 Inserting and removing cassette

5.4.1 Inserting

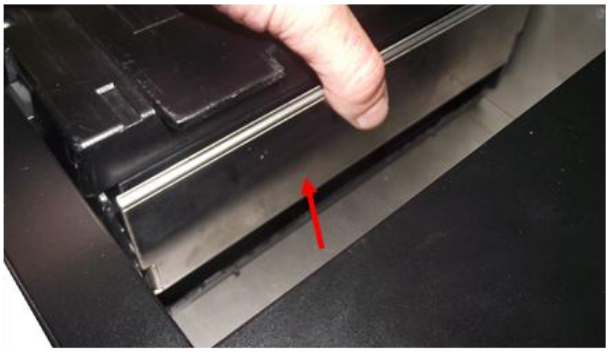
1. Slide the cassette into the cassette tester.
2. The shutter should fully open and rest just under the lid.
3. At this point test the shutter to check the retention strength of the springs.
4. If the shutter only partly opens, proceed with the following:
    a Place your hand through the top inspection window and lift the shutter up to the lip of the lid.
    b This will lift the side metal lugs over the stopper plate.
    c This indicates that either the shutter, shutter arms or shutter tension springs are faulty or damaged.
5. Insert the cassette fully so the latch on the right-hand side holds the cassette in place.



Fully open



Partly open



Lifting the shutter open

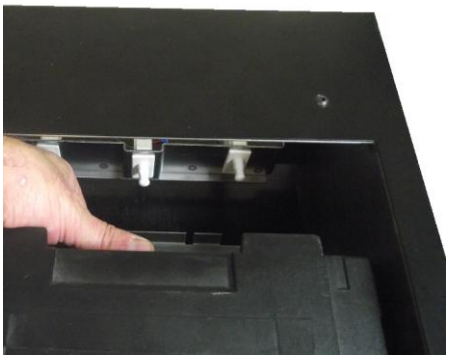
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5.4.2 Removing

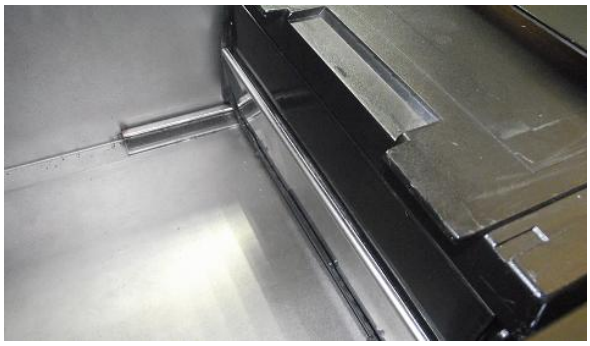
1. Press the cassette latch lever down, and using the handle pull the cassette back so that a gap between the lid end and the inspecting window are about 5cm apart, (or until the shutter can be handled, or the lug has passed the stop plate).
2. Push the shutter downwards and continue to remove the cassette.
3. The shutter lugs will now enter the guides and lock back into place when the cassette is removed.



Release the cassette



Manually close the shutter

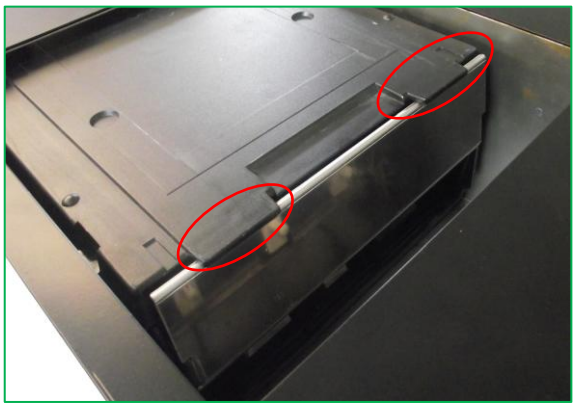


Shutter guides locked into place on removal

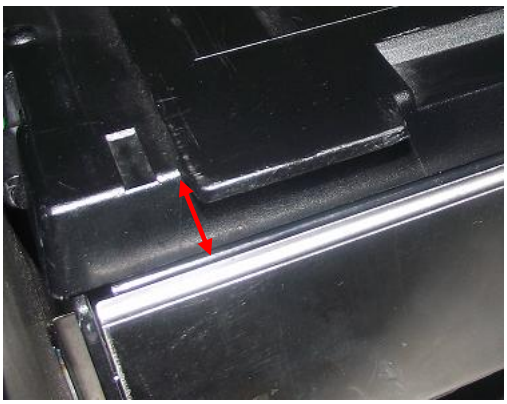
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5.5 Testing tamper indicator

1. Insert the cassette until the shutter fully opens but is not latched in.
2. Close the shutter so that it is past the lid and no further.
3. Now remove the cassette until it clicks.
4. The tamper indicator should now have changed to blue.
5. If it does not change then there is a problem with the cassette.
6. If it operates and switches to blue, reinsert the cassette as per page 14 then proceed with the removal process on page 15.
7. The tamper indicator will still show as blue.
8. Reset the indicator by operating the lid lever latch.



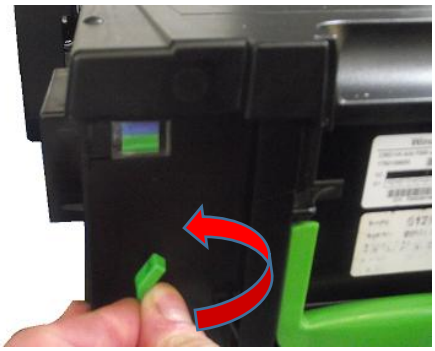
Fully open



Pass the lid



Tamper indicator activated



Resetting Tamper Indicator

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6 Using the application software

6.1 Application overview

The Testlink WN Cassette Tester PC application consists of two operational modes:

1. **Configure Mode** – This allows the user to identify the ID number, currency code and denomination code of the Wincor Nixdorf™ cash cassette. The user can also configure the cassette parameters, for example the currency code can be overwritten with a new value.
2. **Inspect Mode** – This allows the user to perform batch testing of Wincor Nixdorf™ cash cassettes. The motorised pressure carriage (note pusher) can also be tested within this mode.

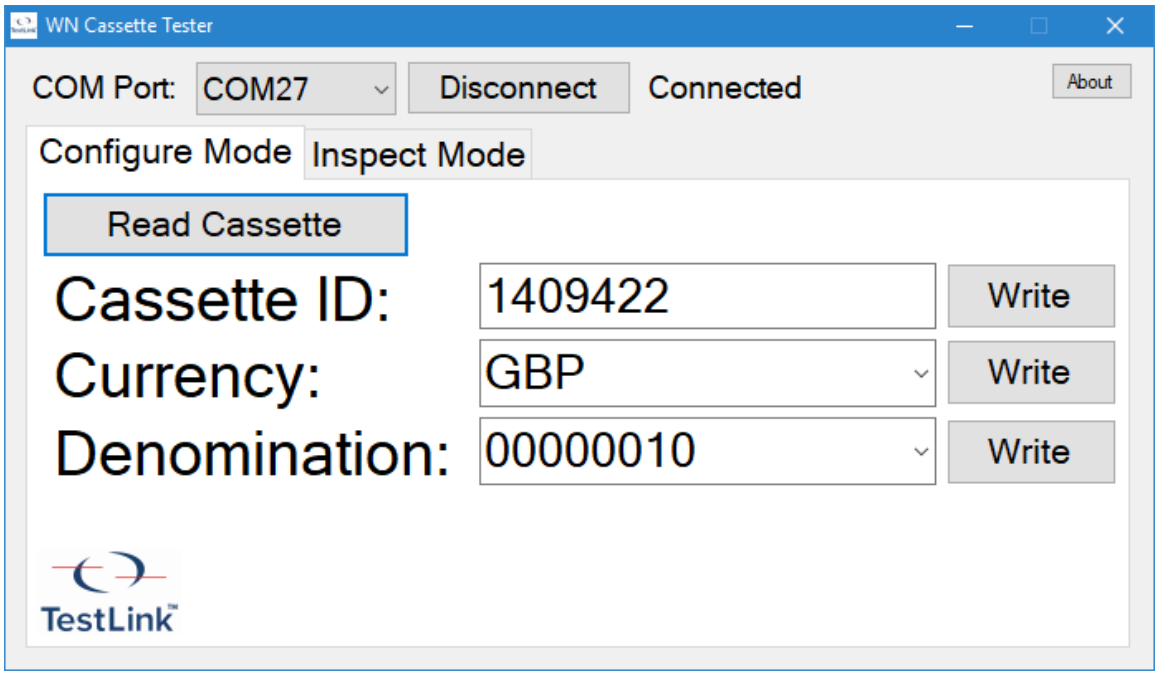
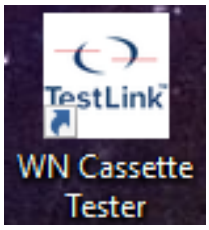


Figure 7: Application main window

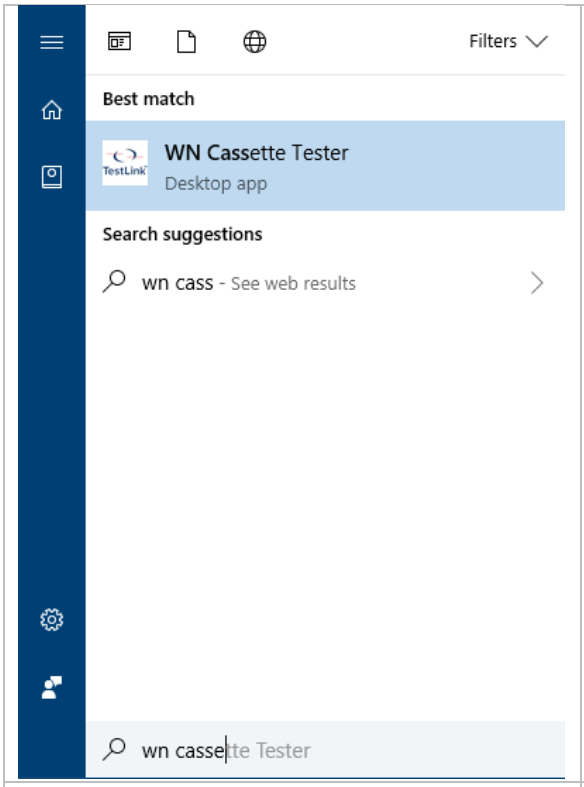
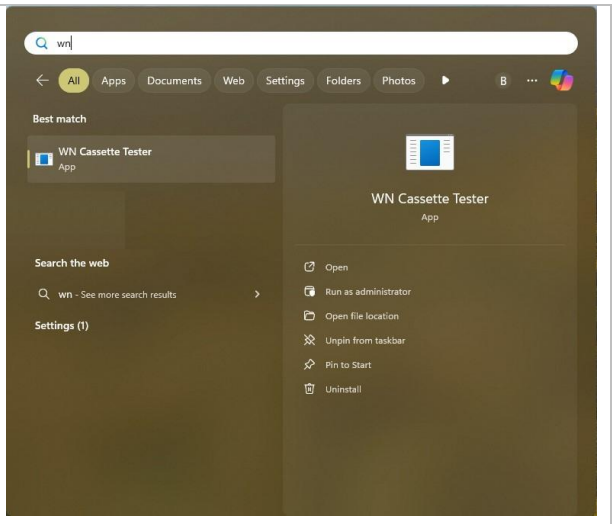
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6.2 Launching the application

To start the application, double-click on the shortcut created during installation:



Otherwise go to **Start**, and type "**WN Cassette Tester**". Hit the **Enter** key when highlighted in the menu. The application will launch.

	
Windows 10 Start → WN Cassette Tester	Windows 11 Start → WN Cassette Tester Or Start → All → WN Cassette Tester

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6.3 Connecting to WN Cassette Tester

On launching the application, the main window is displayed (Figure 8).

To connect to the Cassette Tester:

1. In the **COM port** drop-down list, select the port number that corresponds with the USB Serial Port identified as the Cassette Tester in the Device Manager as per the instructions in section 2.2.
2. Click "**Connect**".

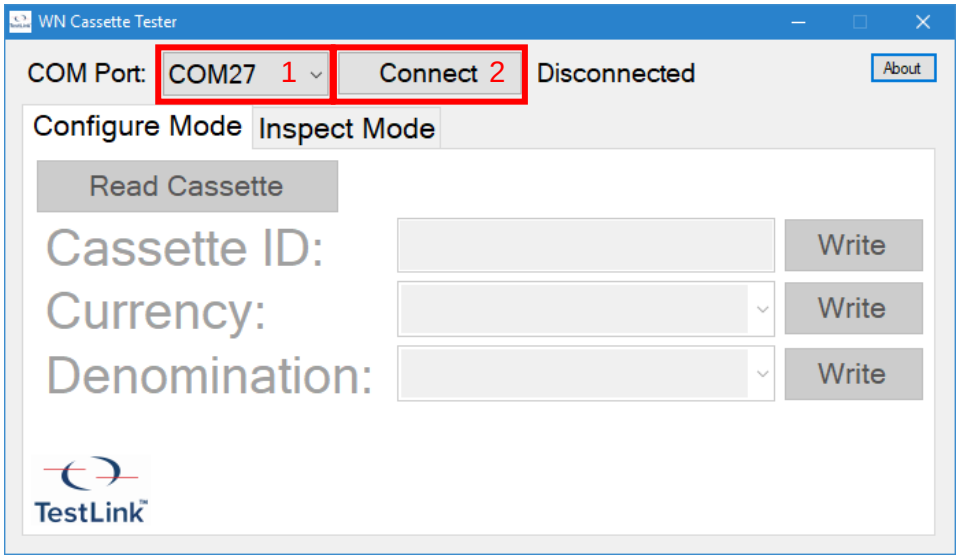


Figure 8: Application software

If connection was successful, the version dialogue box in Figure 9 will appear. The WN Cassette Tester **firmware version** (e.g., V3.0) is displayed. Incorrect selection of the COM port will result in a timeout error message. Click OK to dismiss the message.

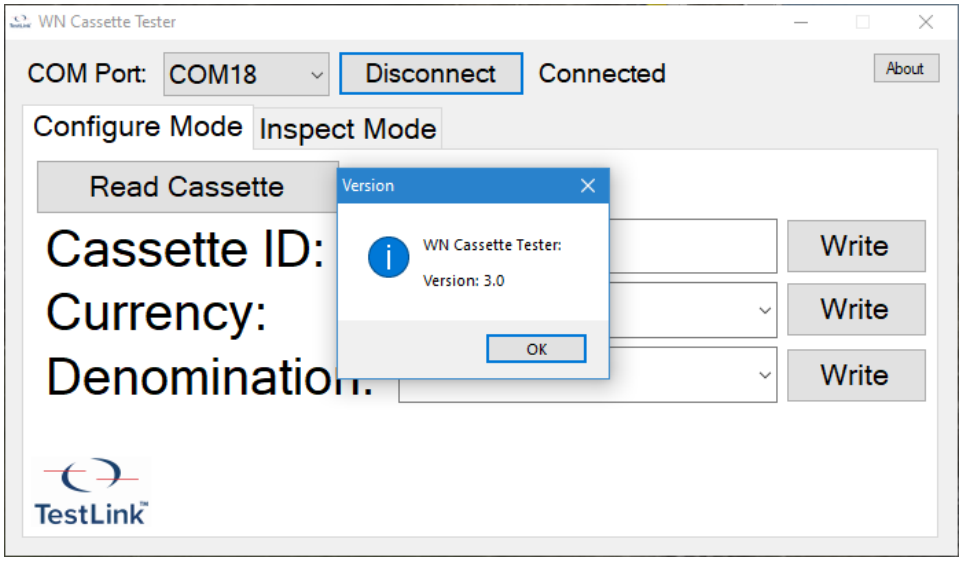


Figure 9: Successful connection to Cassette Tester

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6.4 Configure Mode – Reading Cassette Parameters

Within the Configure Mode tab, the ID number, currency code and denomination of the attached cash cassette can be identified.

Click the “**Read Cassette**” button. The values are displayed within the text boxes.

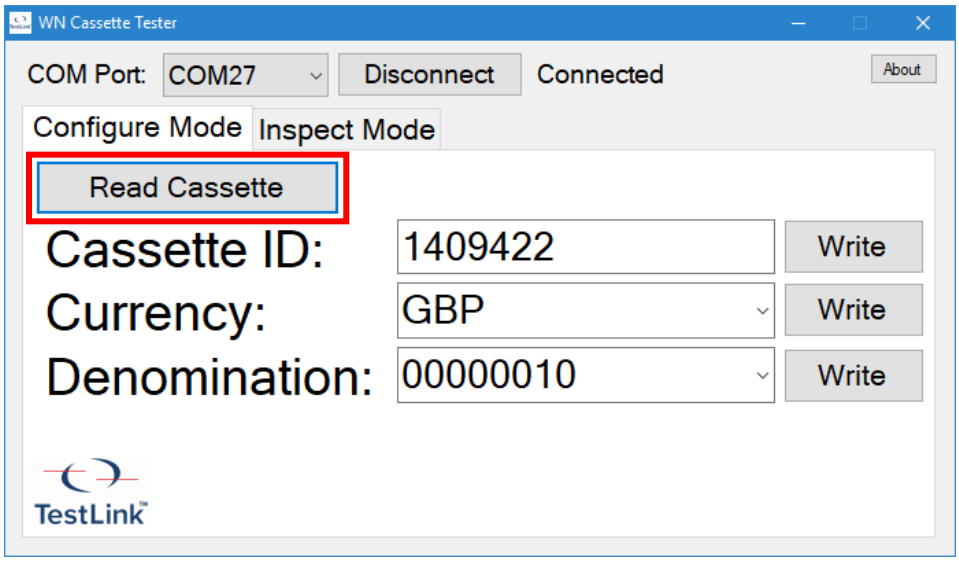


Figure 10: Read Mode - Cassette ID, currency and denomination

If a cassette is **not inserted** or a fault exists on the cassette PCB EEPROM, an error message is shown as in Figure 11.

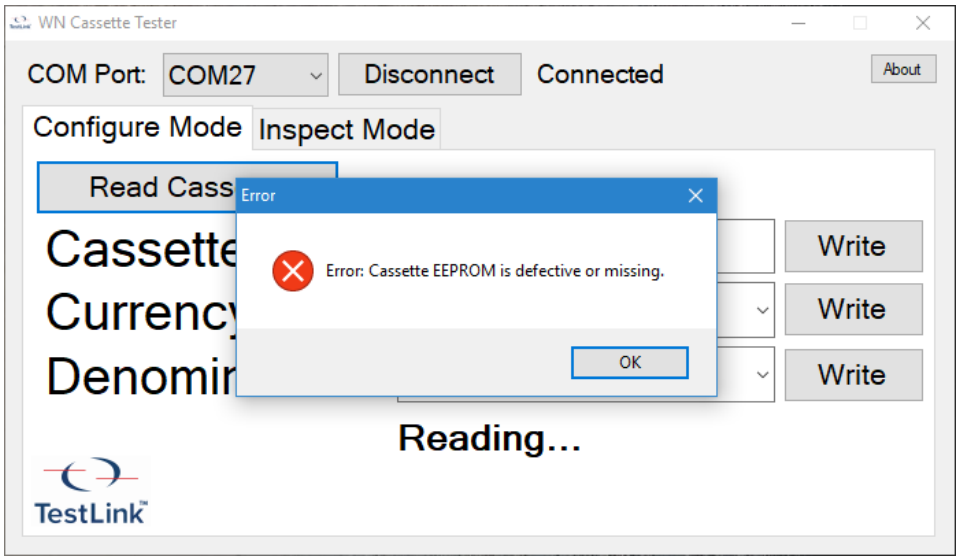


Figure 11: Cassette missing or defective EEPROM error

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6.5 Configure Mode – Configuring Cassette Parameters

The cassette parameters can be overwritten with new values within this mode.

To change the **Cassette ID**, enter a 7-digit code into the text box and click the adjacent "**Write**" button (Figure 12). The 7-digit code can contain upper-case and lower-case letters as well as numbers.

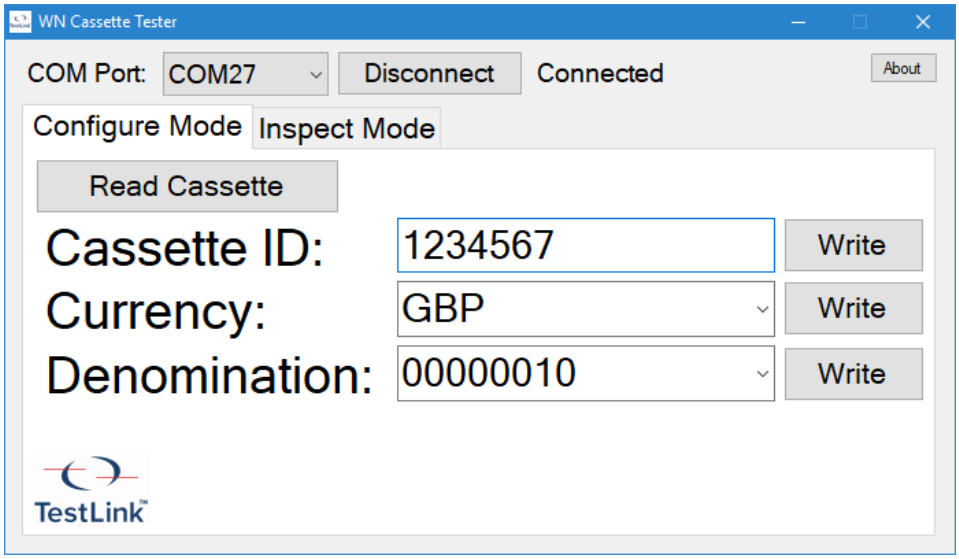


Figure 12: Configure Cassette ID

If the write operation was successful, the message in Figure 13 will appear.

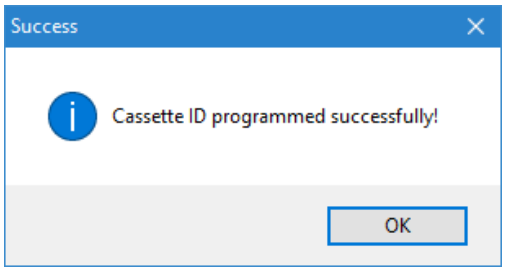


Figure 13: Configuration successful

Otherwise, the verification error message in Figure 14 will appear.

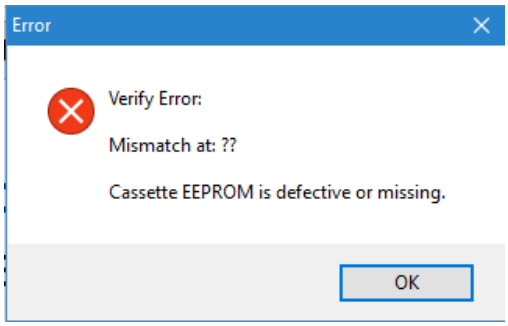


Figure 14: Verify error

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To change the **currency** and **denomination** codes, select a currency by clicking the drop-down arrow in either text box, as shown in Figure 15 and Figure 16.

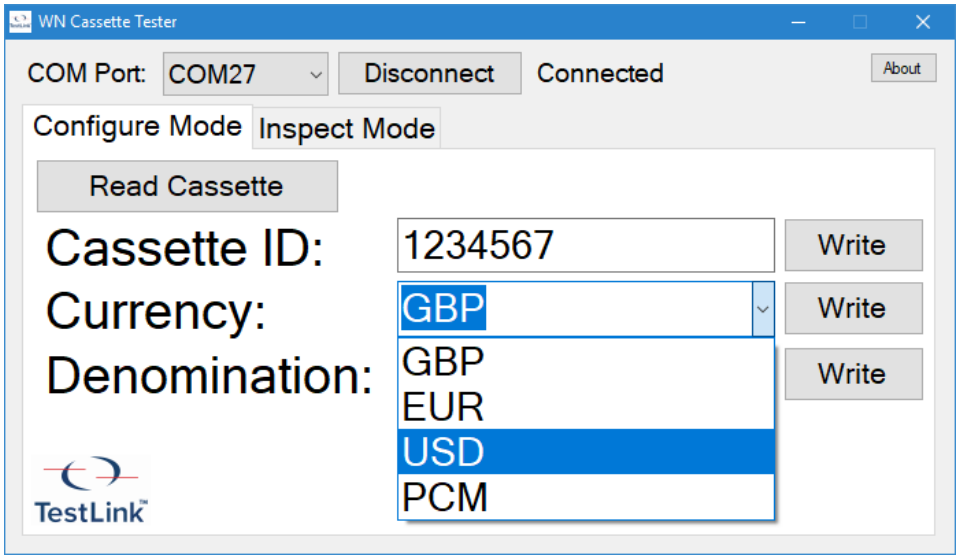


Figure 15: Select currency code

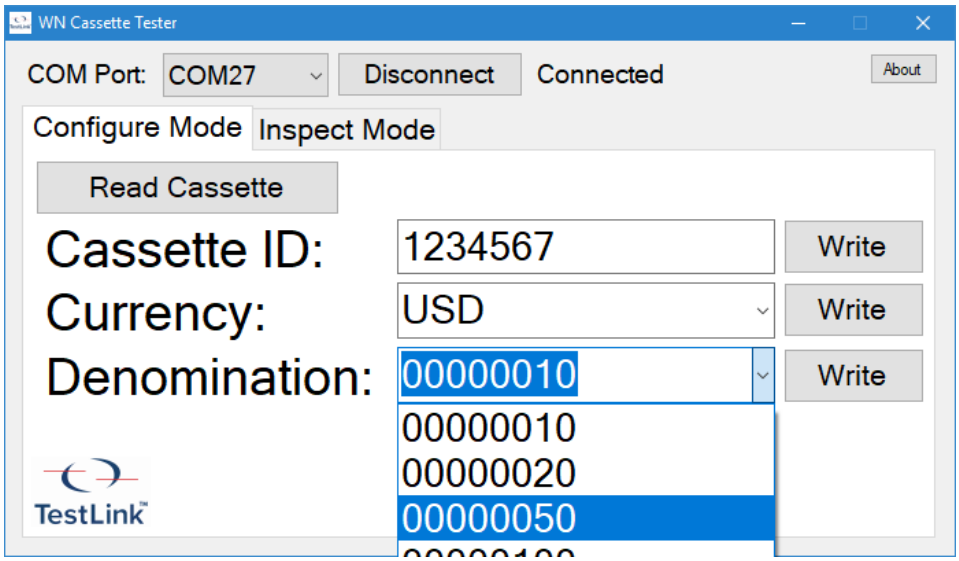


Figure 16: Select denomination value

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The currency and denomination can also be entered manually if the desired value is not present in the drop-down list (Figure 17). The currency code can contain a maximum of 3 characters, consisting of upper-case letters and numbers only. The denomination code can contain a maximum of 8 numbers only.

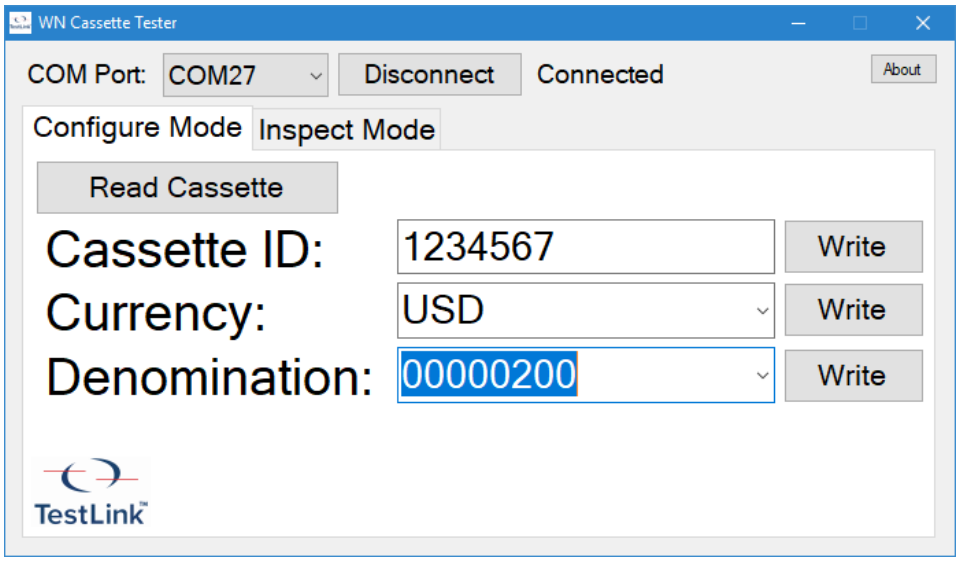


Figure 17: Enter denomination (or currency) manually

Click the "**Write**" button next to the desired parameter to be updated with the new value. A confirmation message box will appear if successful, otherwise a verify error will appear.

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6.6 Inspection Mode – Currency and Denomination Test

Within the Inspect Mode tab, it is possible to verify the currency and denomination code of several cash cassettes against pre-set values, for example when performing batch testing.

1. Select the currency and denomination from the two drop-down lists (Figure 18).

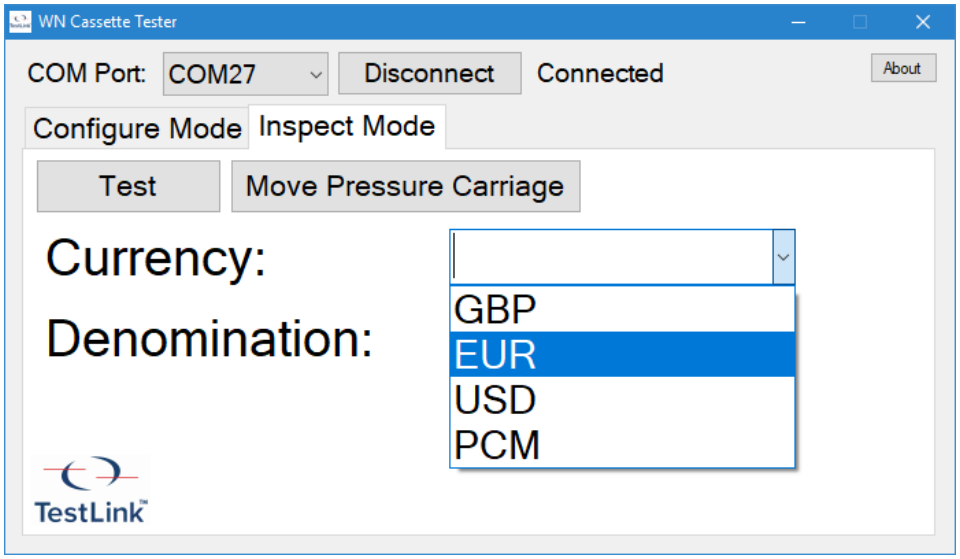


Figure 18: Select currency

The currency and denomination can also be entered manually into both drop-down boxes (Figure 19).

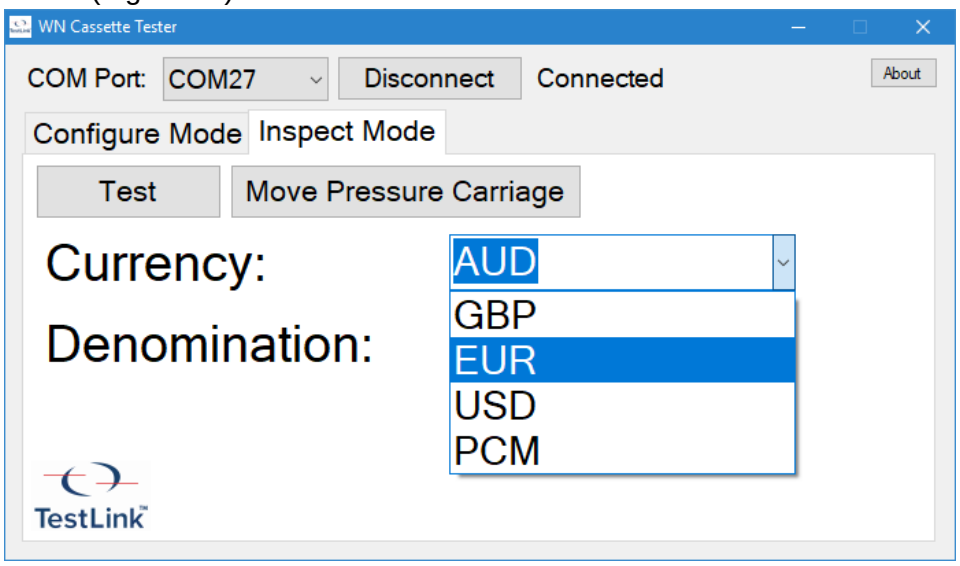


Figure 19: Enter currency manually

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2. Click the “**Test**” button (Figure 20).

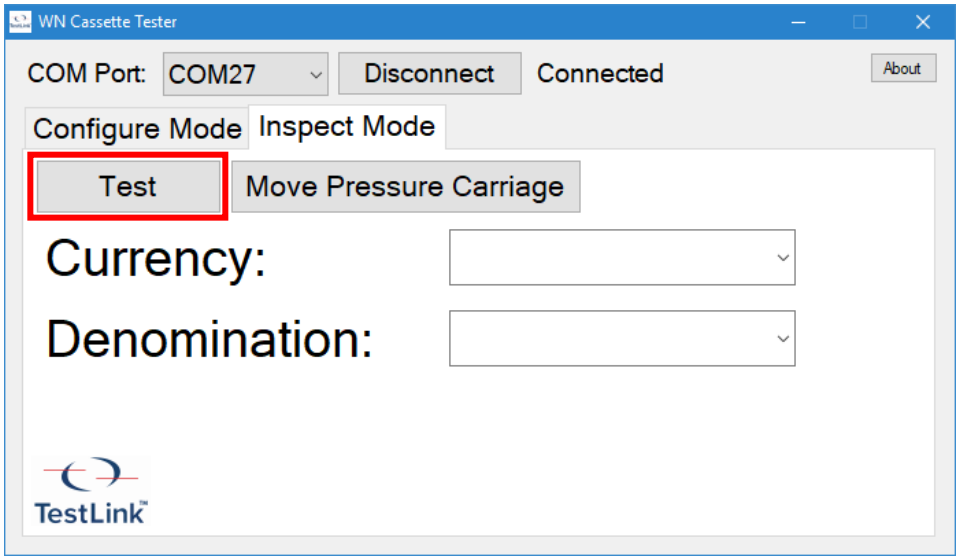


Figure 20: Inspection Mode

If the currency value of the cassette does not match, a screen similar to that shown in Figure 21 is displayed, with “currency” highlighted in red.

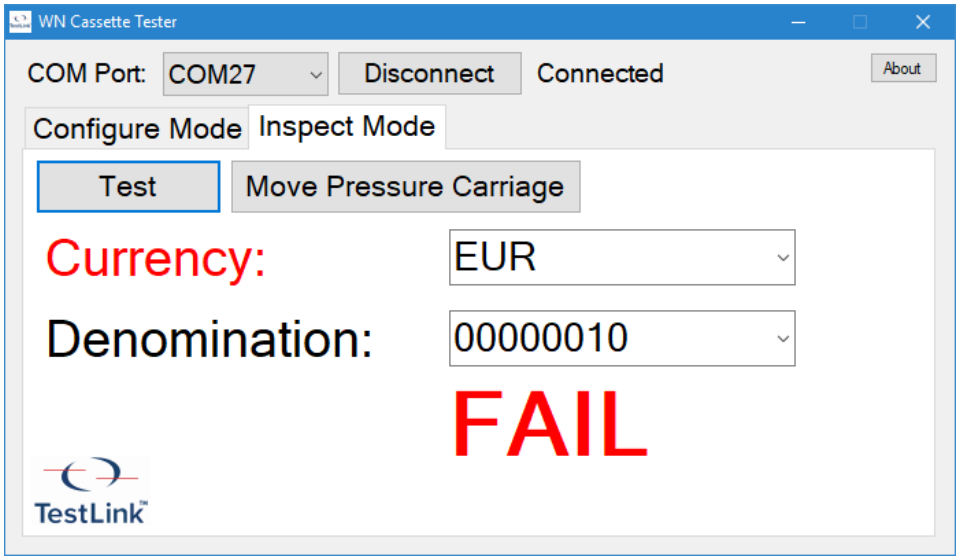


Figure 21: Currency mismatch - test fail

Similarly, if the denomination value of the cassette does not match, a screen similar to Figure 22 is displayed, with “denomination” highlighted in red.

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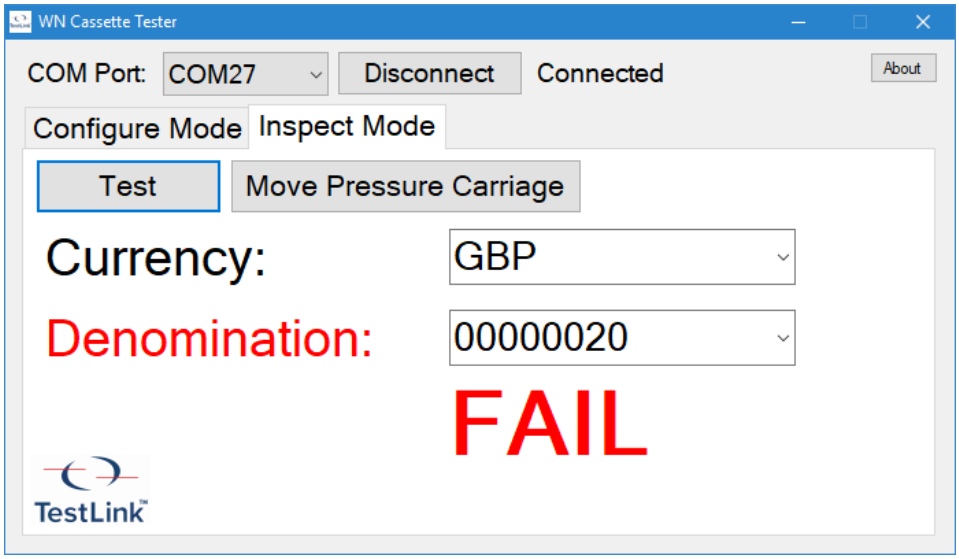


Figure 22: Denomination mismatch – test fail

If both values match, a “Pass” indicator is displayed (Figure 23).

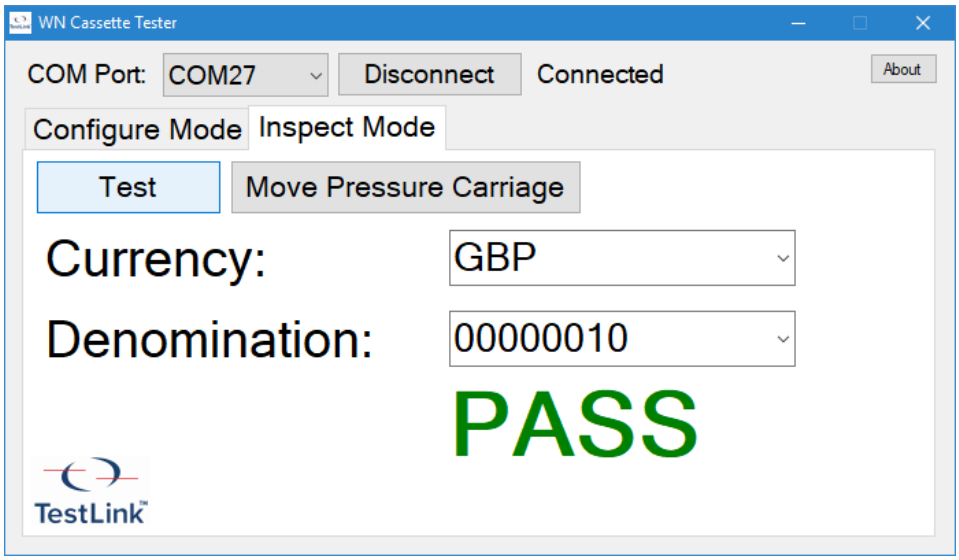


Figure 23: Test pass

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6.7 Inspection Mode – Mechanical Pressure Carriage Test

Within the **Inspect Mode** tab, click the "**Move Pressure Carriage**" button (Figure 24).

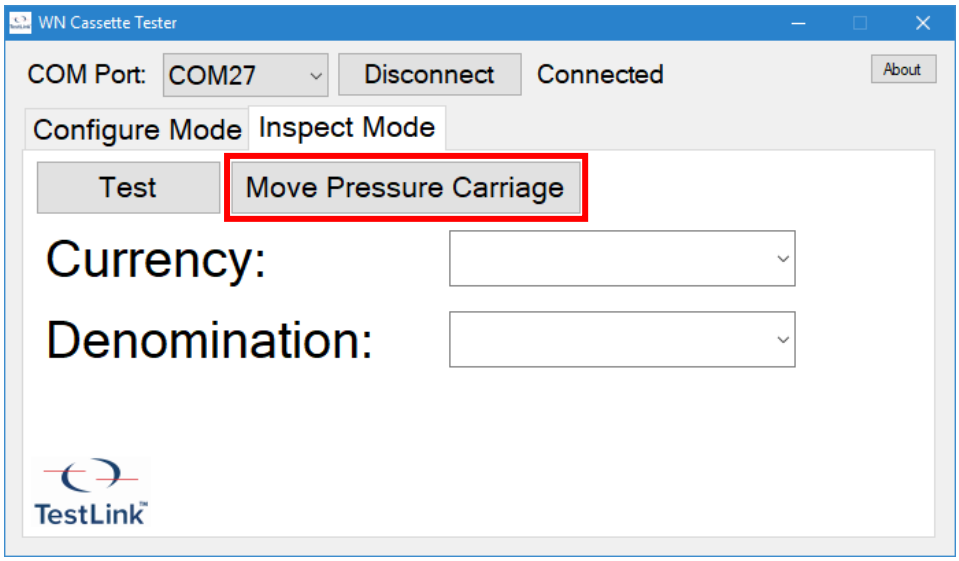


Figure 24: Move Pressure Carriage Test

The motorised pressure carriage/note pusher should move towards the back of the cassette tester. This can be observed through the inspection window. When the pressure carriage has registered against the centre limit switch, the carriage should stop, pause briefly and reverse by approximately 15mm. The rear metal note present plate within the cassette should now register against the two outer limit switches.

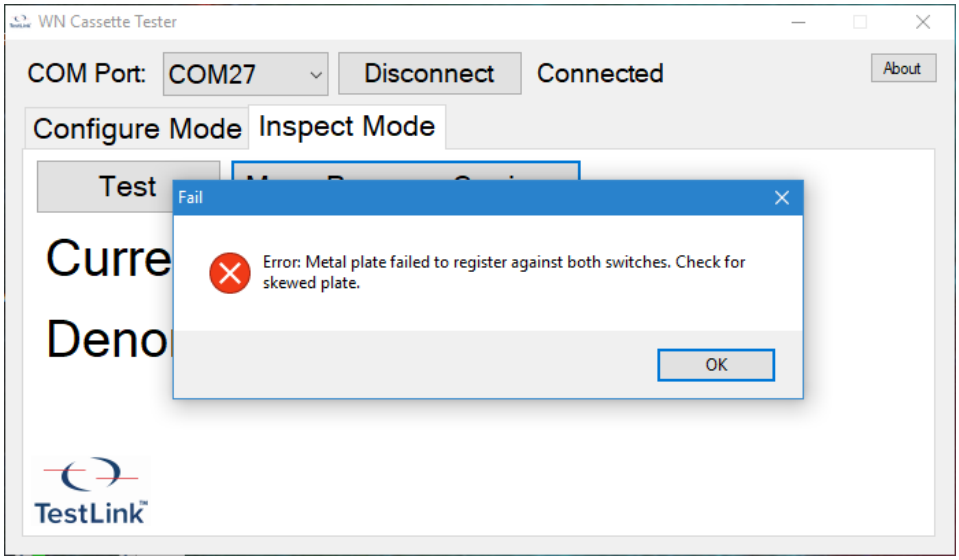


Figure 25: Pressure carriage - plate skewed

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If the pressure carriage fails to register against the centre limit switch after approximately 6 seconds, an error message is displayed (Figure 26):

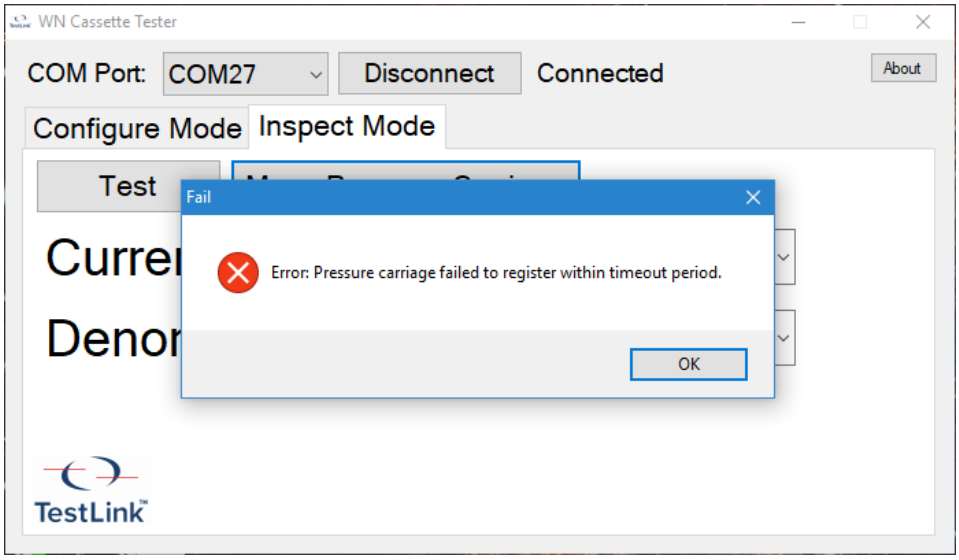


Figure 26: Pressure carriage - timeout error

If all tests were successful, the dialogue box in Figure 27 is displayed.

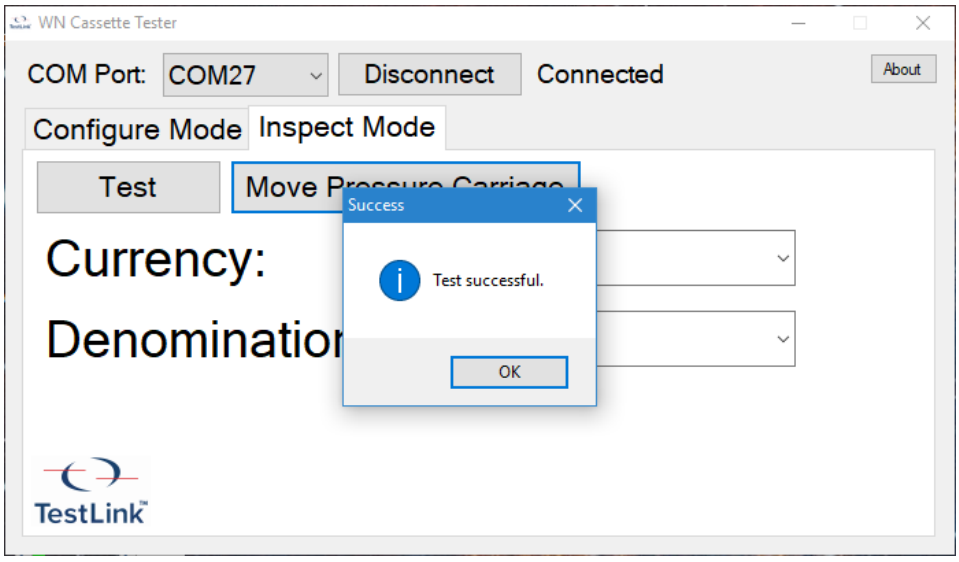


Figure 27: Pressure carriage - test successful

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7 Disconnection

Within the application software, click the "**Disconnect**" button (**1**) and close the window (**2**), (Figure 28).

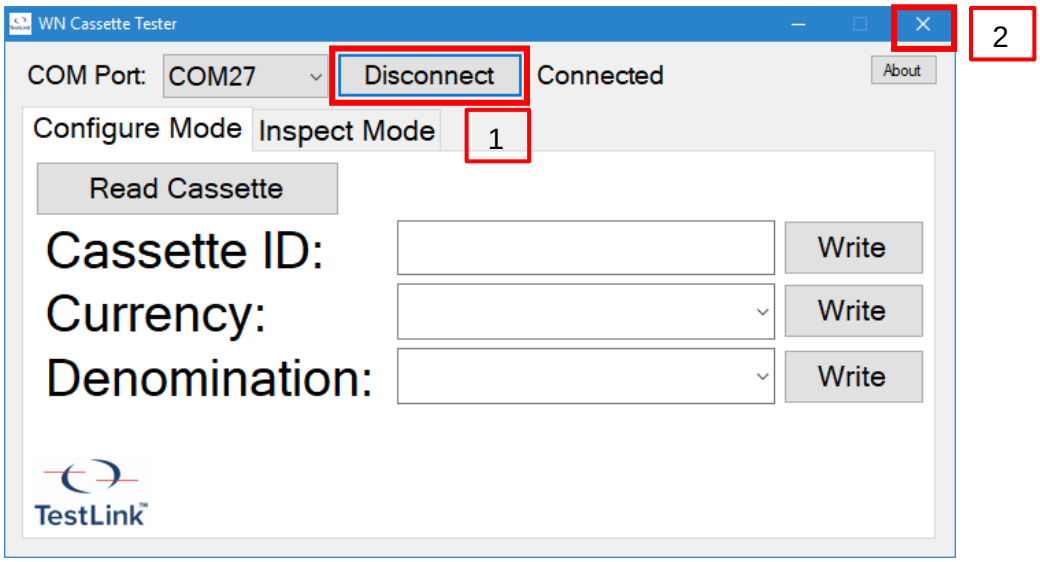


Figure 28: Disconnection in application software

To disconnect the Cassette Tester, use the following procedure:

1. Switch off the AC Power Adaptor at the wall socket.
2. Remove the USB cable.
3. Remove the 24V DC Power Jack.
4. Remove the AC Adaptor from the wall socket.

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8 Quick test

- Insert the cassette until the shutter fully opens but not latched in.
- Close the shutter so that it is past the lid and no further.
- Now remove the cassette until it clicks.
- The tamper indicator should now have changed to blue.
- If it does not change then there is a problem with the cassette.
- If it operates and switches to blue reinsert the cassette as per page 14 then proceed with the removal process on page 15.
- The tamper indicator will still show as blue.
- Reset this by operating the lid lever latch.

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