S1 CASSETTE TESTER WITH USB INTERFACE

User Manual

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1. Introduction

Thank you for purchasing the S1 Cassette Tester from Testlink Services Ltd. This product is designed to accurately test the configuration of NCR™ ATM cash cassettes.

If you have any issues using this product, please contact us on the details below:

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Distribution options are available, please see our website or contact us for details.

1.1. Video Instruction and Demonstration

To aid your understanding of this product, Testlink has provided a demonstration video of the cassette tester system. This can be found at the following web address:

https://www.youtube.com/watch?v=BwwcViOluA0

2. Contents of Box

- S1 Cassette Tester
- USB Cable
- Instructions Flyer

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3. Getting Started

Once unpacked, please ensure that the cassette tester is on a level surface.

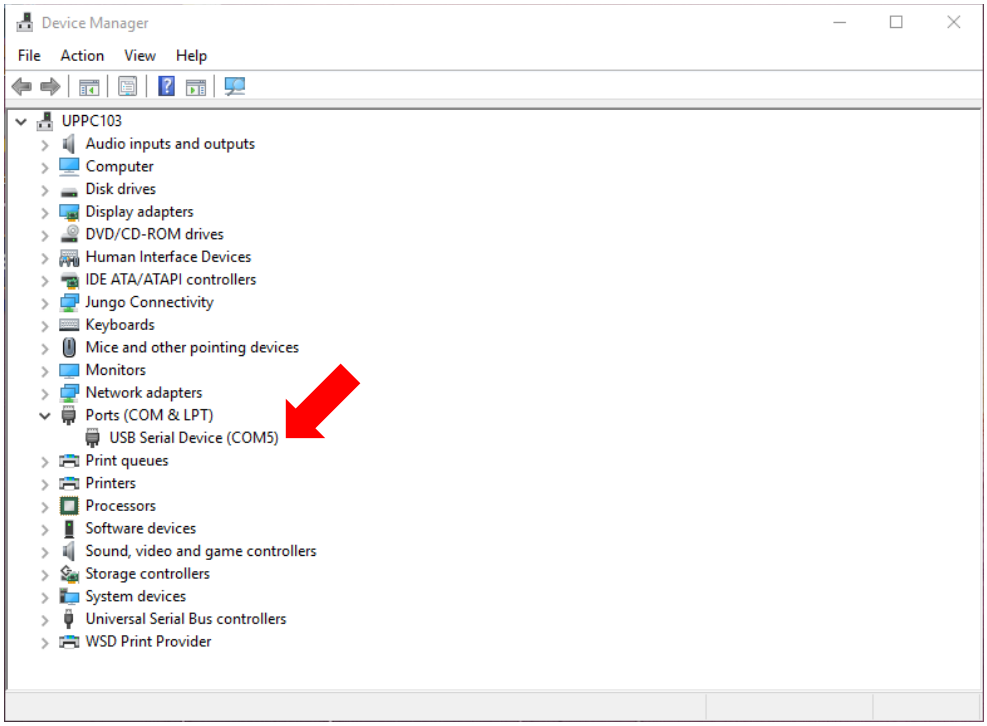
Connect the supplied USB cable to the USB connector at the top of the unit and to a host PC. The Cassette Tester obtains its power from the USB connection to the PC.

Once power is applied, the red power and error LEDs will light up. The unit is now ready to function.



3.1. USB Driver

On the first connection to a PC, on most installations of Microsoft™ Windows®, the USB to Serial driver for the Cassette Tester should be automatically installed. Once the driver is set up, the Cassette Tester will be listed on the PC as a USB Serial Port device. This can be checked by launching the Device Manager, expanding the “Ports (COM and LPT)” device category, and checking for a “USB Serial Port” device.



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4. Inserting a cassette

Slide the cassette along the guiding rails as shown.



Push the cassette firmly into place – a loud “click” will advise when this is done. See below.



The cassette is now loaded and ready for testing.

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5. Magnet configuration testing

When the cassette is loaded, the LEDs on the top of the Cassette Tester will light to inform the user of the configuration the cassette magnets are currently set to, or if an unknown configuration is detected, the error LED will be lit.

A lit error LED indicates that the cassette magnet configuration is of an unknown type and will not be recognised by any NCR ATM.

The cash low sensor LED will also light up if the cassette is empty or contains a low number of banknotes.

There are four types of magnet configuration – this is shown instantly on the LED panel and a green LED will light up against the detected type.



Please be aware that deployers use these types for different banknote denominations. The Testlink Cassette Tester will test for magnet type only, not banknote denomination.

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6. Cash Low testing

All NCR ATMs are able to detect if the notes in the cassettes are getting low. All cassettes relay this information via the cash low sensor.

When a cassette is inserted into the Cassette Tester, the Cash Low sensor on the Cassette Tester will instantly inform the user if the cassette is functioning.

Remove the lid of the cassette whilst it is inserted into the unit, as shown below. The user can move the note pusher of the cassette in order to test the cash low operation.



When the Cash Low LED is on, this indicates that the magnet in the cassette note pusher is in close proximity to the Cash Low sensor. Pull the note pusher backwards with the green handle. The LED will switch off.

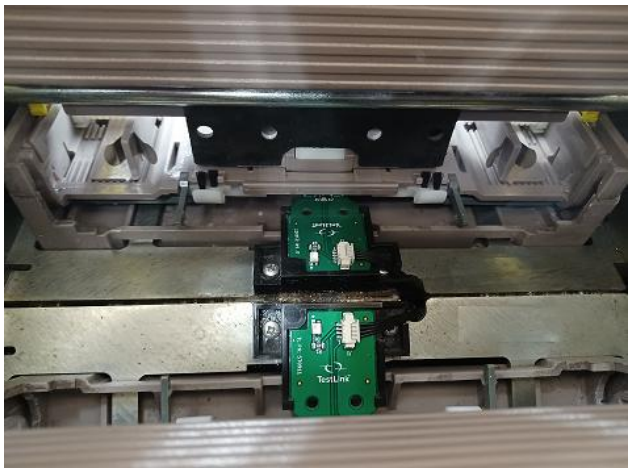


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7. Shutter functional test

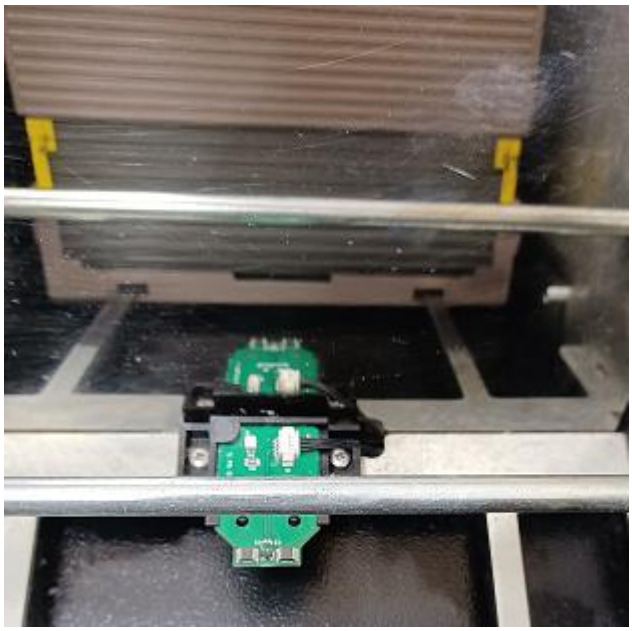
When a cassette is inserted into the Cassette Tester, the shutter on the rear will be opened automatically.

The Cassette Tester is fitted with an angled mirror so that the user can see the shutter opening and closing, as shown below.



Ensure that the shutter opens and closes in a fluid movement. Shutter failures are very hard to identify without a Cassette Tester and can cause issues in the field.

The cassette can be released (see section 8) using the green lever and reinserted to ensure that the shutter is operational.

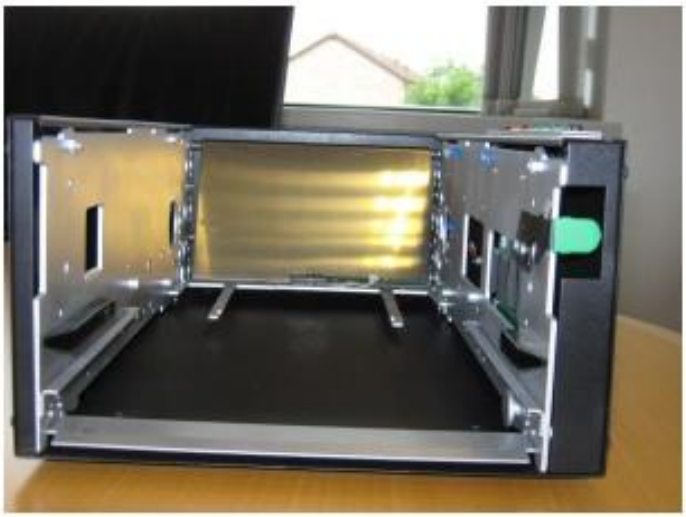


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8. Releasing the cassette

The cassette is released in a similar fashion to that of an NCR ATM.

Raise the green lever on the front right-hand side of the unit and pull out the cassette, as shown below.



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9. Cassette Tester USB PC Interface

This section describes the serial protocol used to obtain the cassette configuration, cash low sensor status and cassette tester identity.

9.1. Serial port settings

Baud rate	9600 bps
Data bits	8 bits
Stop bits	1 bit
Parity	None
Flow control	Off
Encoding	ASCII

9.2. Read cassette type

Transmit

Description	Command
Data	**?**

Receive

Good response (Valid cassette type – 1 to 7)

Description	Response
Data	**1-4, 5-7**

1 to 4 is standard cassette configuration, 5-7 is extended cassette configuration

Error response (Unknown cassette type)

Description	Response
Data	**E**

Error response (Cassette not inserted)

Description	Response
Data	**N**

9.3. Cash low sensor state

Transmit

Description	Command
Data	**!**

Receive

Description	Response
Data	**1**

1 = Cash is **low**

Description	Response
Data	**0**

0 = Cash is **not low**

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9.4. Cassette Tester identity

Transmit

Description	Command
Data	#

Receive

Description	Response
Data	**S1**

S1 = NCR S1 Cassette Tester

10. Maintenance and care

The Cassette Tester is a durable unit designed to be used many times a day. As there are no moving parts, issues should not arise. We recommend that the unit is cleaned regularly to ensure that correct readings are taken. Cleaning fluids should be non-acidic to ensure no damage occurs to the sensors and internal circuitry.

11. Disclaimer

Testlink accepts no responsibility for mis-configured cassettes supplied by third parties using the Cassette Tester. It is the user's responsibility to ensure that cassettes are correctly managed, configured and tested. Testlink is in no way liable for any actions of our customers.

12. Revision History

Change Date	Issue	Reason For Change
07/02/2023	1	Initial Issue
10/02/2025	2	Logo updated

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