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TEST MANUAL


MODEL : LCDM-4000
REV. : 1.03
DATE : 2007. 02.05



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Revision History

| Ver. | Date | Contents | | Manager |
|------|------------|--|---------|------------|
| | | Cause of Revision | Details | |
| 1.01 | 2005.05.01 | Released by Puloon Lab. | | W. H. Park |
| 1.02 | 2006.08.22 | Detail Explanation Added in the Sector 1.7 Setting to Note | | W. H. Park |
| 1.03 | 2007.02.05 | RVDT No Load Value Description Changed | | |

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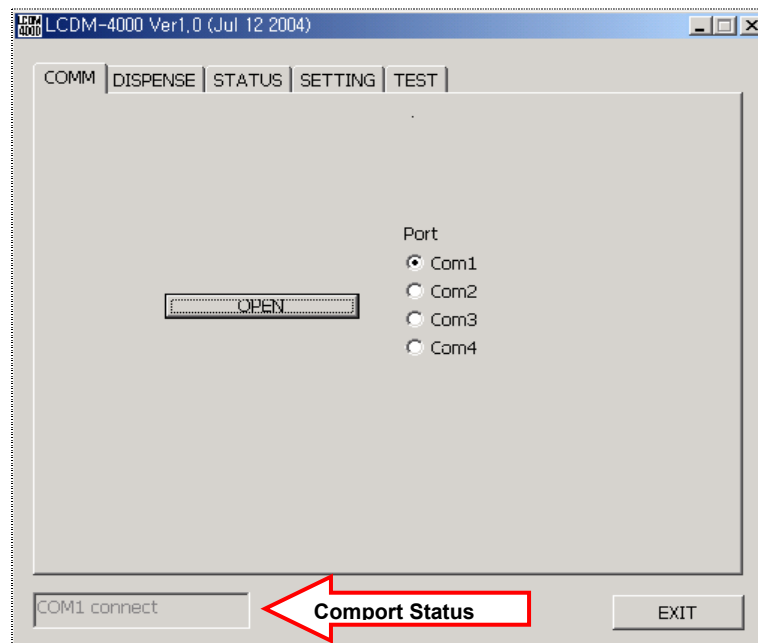
1. Preview

The test manual describes how to test LCDM-4000, four cassette cash dispenser, on the test program circumstance.


2. Testing Method

1.1 Connecting Communication Port

- 1) Connect RS232 cable between PC and LCDM.
- 2) Then start the test program and choose the tab, COMM.
- 3) Check the port of PC and open the channel.
- 4) Check if the communication is successful or not by display on the bottom.

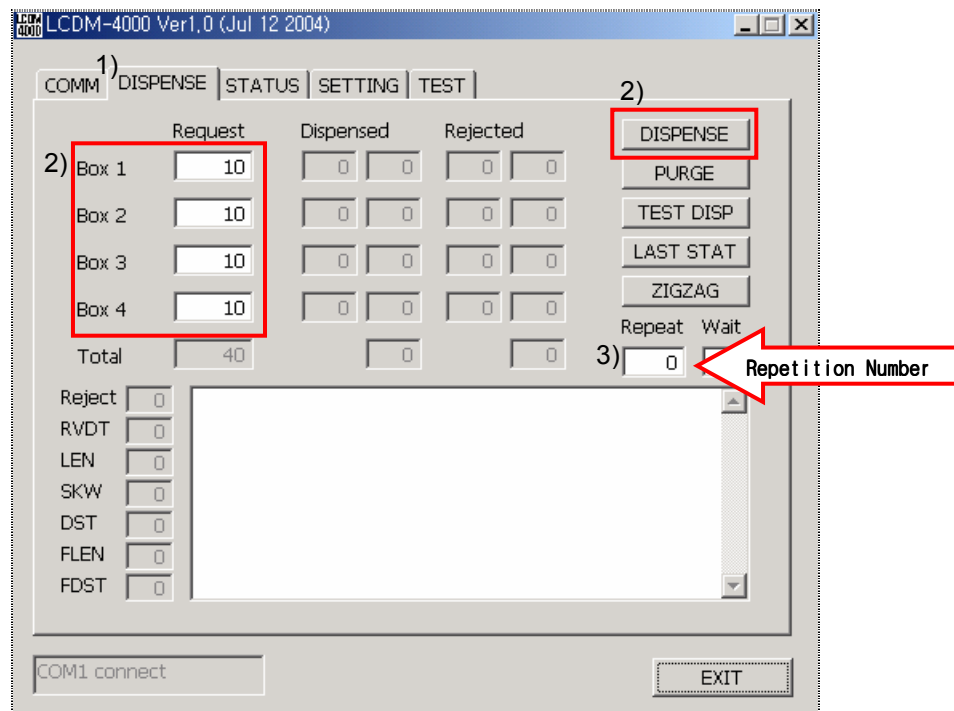


< Fig. 1. Connecting Communication Port >


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1.2 Dispense

- 1) Press the tab of “DISPENSE” for dispensing.
- 2) Put the request number for dispensing onto each blank and press the button of “DISPENSE”. After dispensing the results are displayed in the right side on the test program.
- 3) If repeated dispensing is needed for testing, put the number of repetition on the blank of “Repeat” and press the button, “DISPENSE”.

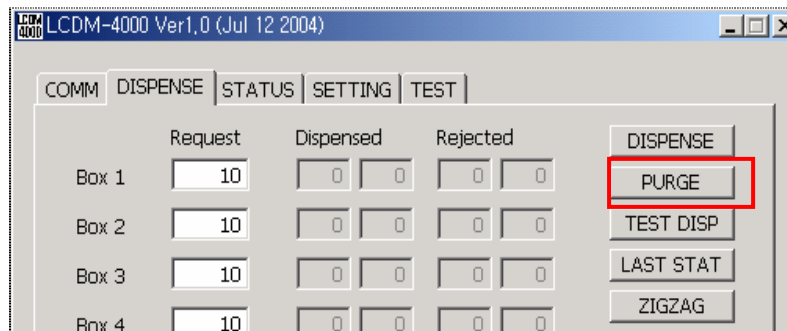


< Fig 2. Dispense >

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1.3 Purge

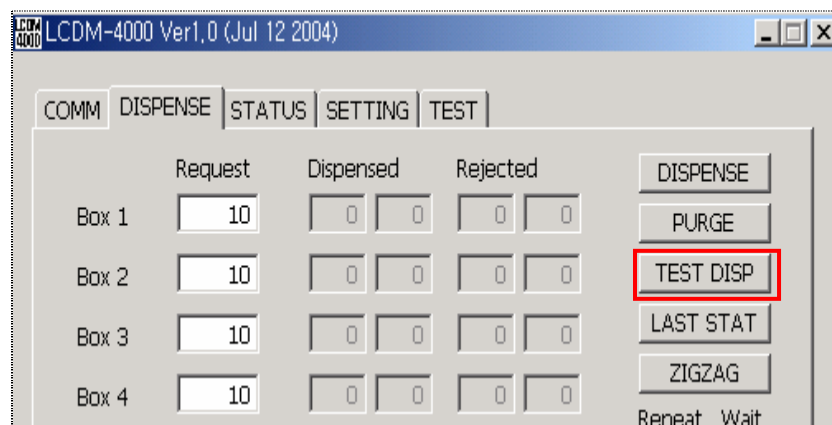
The PURGE initializes LCDM with clearing all the notes stayed on the path by sudden stop or jamming to the Reject Tray.



< Fig 3. Purge >

1.4 Test Dispense


The TEST DISPENSE rejects the requested number from the requested cassette.

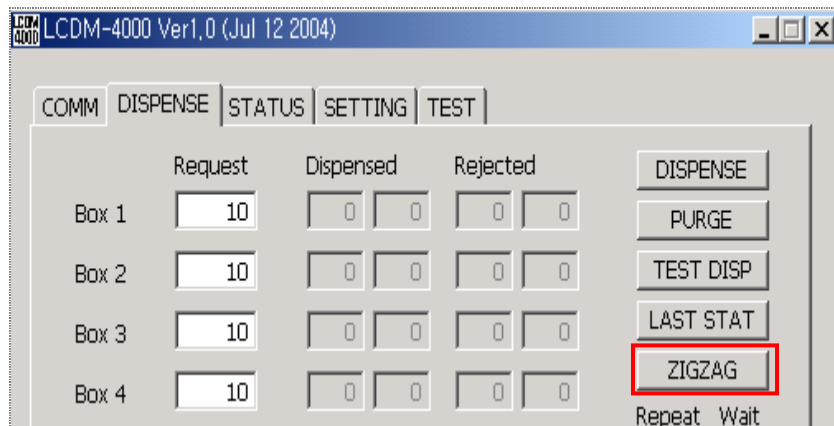


< Fig 4. Test Dispense >

1.5 ZIGZAG Test

The ZIGZAG TEST dispenses one note and reject one note sequentially. The number of the dispensed is the same number that is requested but the number of rejects is [the dispensed – 1].

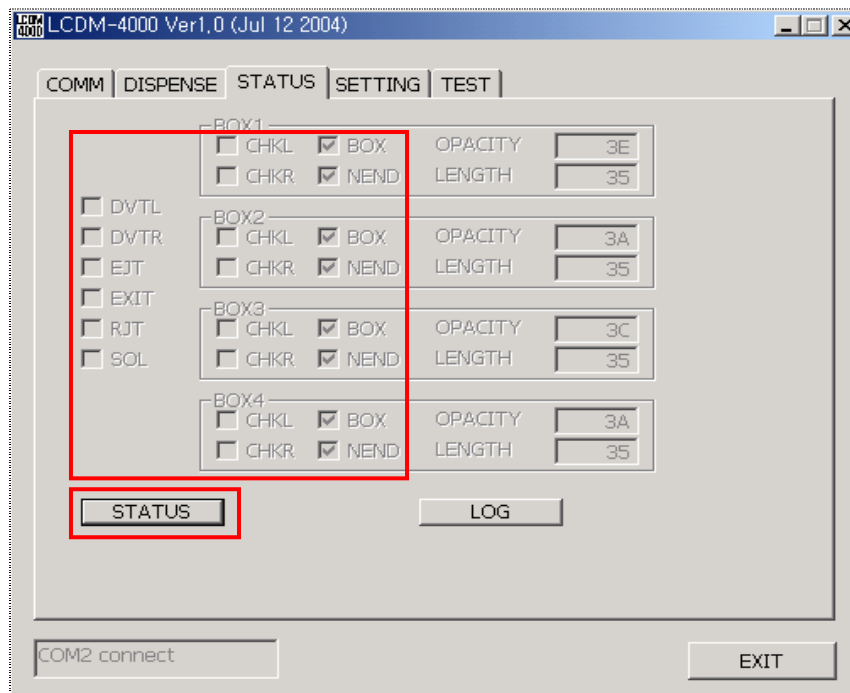
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< Fig 5. ZIGZAG Test >

1.6 Status

- 1) The STATUS shows the status of sensors.
- 2) Without loading notes into cash cassettes, the normal status of sensors are like the picture.
: BOX(Box Existence) sensors and NEND(Nearend) sensors should be checked and all other sensors should not be checked.



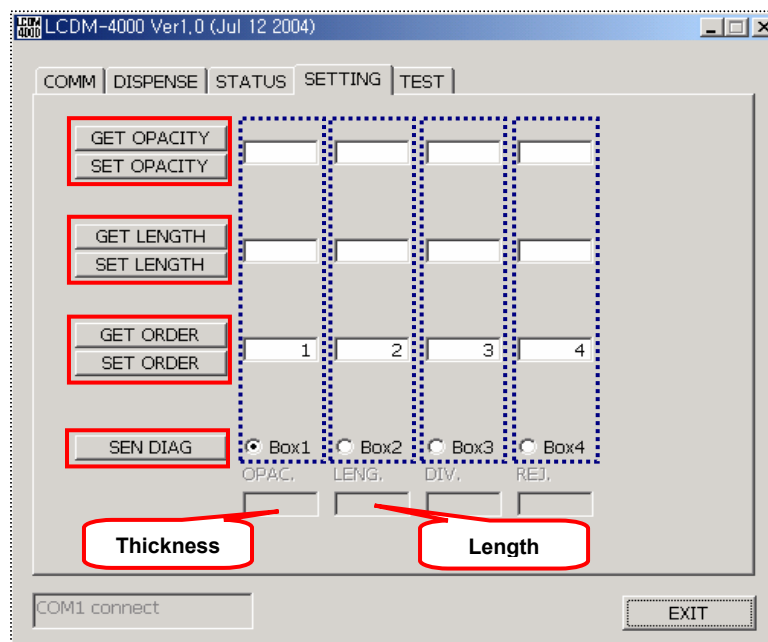
< Fig 6. Sensor Status >

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1.7 Setting to Note

LCDM-4000 has key feature to set main parameters to the characteristics of the notes. If user wants to use different thickness and size of note for each box, the parameters for each note can be set to the features of the note.

- 1) Load the notes for each cassettes.
- 2) Choose the box of the right side of the button, SEN DIAG.
- 3) Press the button of SEN DIAG and 5 notes are dispensed from the chosen box.
Then, the measured values for the OPAC(Thickness) and LENG(Length) of notes are displayed on the bottom of the test program.
- 4) Put the measured values to the proper blank referring to the example and push the button SET OPACITY or SET LENG to memorize the value to the dispenser.
 - Ex1) Box1 : SEN DIAG → OPAC. 50 LENG. 37
Put 50 into the 1st blank next to GET OPACITY and 37 into the 1st blank next to GET LENG. Then push the button SET OPACITY and SET LENG.
 - Ex2) Box3 : SEN DIAG → OPAC. 52 LENG. 38
Put 50 into the 3rd blank next to GET OPACITY and 38 into the 3rd blank next to GET LENG. Then push the button SET OPACITY and SET LENG.
- 5) Repeat this cycle for another boxes.
- 6) Press the button of GET OPACITY and GET LENGTH. Then, all the newly set values for each box can be displayed for checking.
- 7) SET ORDER button enables to assign the priority for dispensing of the cassette. Current priority can be shown by GET ORDER.

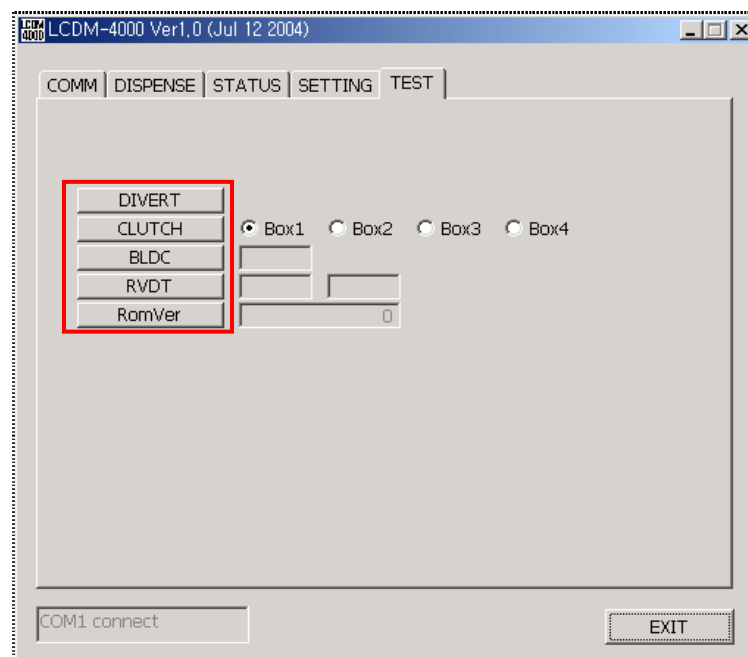


< Fig 7. Setting to Note >

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1.8 Other Testings

- 1) DIVERT : Checking the solenoid to operate the diverter
- 2) CLUTCH : Testing individual clutch on each box after choosing the box
- 3) BLDC : Measuring the motor speed
Normal Motor Speed : 19FA ~ 1CB6 at V0.90, 0.91
6500~7200 after V0.92
- 4) RVDT : Measuring RVDT value
Normal RVDT(OPAC.) value without any load : 123 ~ 132
- 5) ROMVer : Check ROM version and CHKSUM



< Fig 8. Other Testings >