OmniDispenser Technical Guide

60-3007 Rev G

Includes hardware, software, and implementation steps

Omnicell®

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Introduction

About This Guide

This guide provides comprehensive technical information for the OmniDispenser module. It is intended for use by Omnicell personnel, and is considered a confidential, internal document.

It is recommended that all Omnicell Field Operations and Technical Support personnel review this guide prior to installing, implementing, troubleshooting, or servicing an OmniDispenser module.

Product Overview

The OmniDispenser is an automated single-dose dispensing module, designed to fit within OmniSupplier Color Touch and OmniRx Color Touch cabinets. This product allows facilities to combine leading-edge unit-dose dispensing technology, with the convenience and flexibility of Omnicell's pharmacy and combination systems.

Competitive Advantages

Modeled after the Sure-Med unit-dose compartment, OmniDispenser provides:

- Improved patient safety through medication error reduction.
- Complete controlled substance unit-dose dispensing, including:
  - 1 and 2 ml Ampules
  - 1 and 2 ml Vials
  - Oral Solids
  - Syringes (SlimPak)
- Superior convenience and ease of use:
  - Allows users to dispense multiple items into the dispense drawer, and retrieve them all at once.
  - Allows use in combination with Omnicell pharmacy drawer types and supply storage locations in a single cabinet.
  - No count-backs required for OmniDispenser dosing; increased nursing efficiency
  - Directed restock using Omnicell Guiding Light technology; decreased medication errors

Requirements

This section outlines general hardware and software requirements for the OmniDispenser module. Please refer to "Technical Overview" on page 2-1 and "Implementation" on page 4-1 for complete, detailed requirements and procedures.

Hardware

- OmniDispenser modules can be ordered with new OmniSupplier Color Touch and OmniRx Color Touch cabinets.
- OmniDispenser modules can not be installed in the field, or otherwise retrofit into existing cabinets.
- A return bin is required (preferably external [Omnicell ERB]).
- OmniDispenser requires a new dispenser type, designed with guiding light and restock button technology.
- The dispenser cassettes (plastic cassette that is filled and inserted into cassette dispensers) have not changed.

Software

- OmniDispenser is supported on Omnicell 7200 Color Touch systems and above. Minimum software versions are as follows:
  - Color Touch: 5.4.5.x
  - OmniCenter: 7.0.5.x
- OmniDispenser is supported on both Omnicell 7200 Plus and Omnicell 7200 Standard servers.

Technical Overview

Hardware Components

Note: See "Glossary" on page 1-1 for OmniDispenser related terms and definitions.

Dispense Drawer

The dispense drawer is used to retrieve dispensed medications. Users issue medications via the Color Touch software, as usual. Once the medication is issued, it drops into the dispense drawer, and the drawer LED flashes and unlocks. The user then pulls open the dispense drawer to retrieve the medication.

During certain inventory or administrative applications, the user must press the dispense drawer button to unlock the drawer.

Restock Door

The restock door grants access to the restock compartment, which houses the individual dispensers. To access the restock compartment, the (authorized) user logs in, selects the desired function, then presses the restock door button to select the module and/or open the restock door (see the Software Functionality/User Interface section for details).

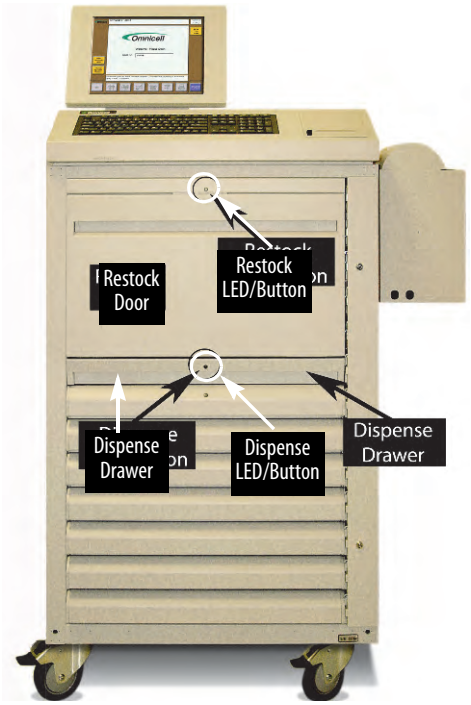


Figure 2-1. OmniDispenser Module (installed on an OmniRx)

Once opened, the depression or trough at the base of the restock door can be used to catch medications dispensed during inventory or diagnostics functions (see Figure 2-2). Though less efficient, the user can also push the rail frame in and dispense into the dispense drawer, using the Open Dispense Drawer and Open Restock Door buttons as needed to retrieve medications and/or chose the next item.

Restock Compartment

The restock compartment houses the rail frame, fixed rails, any optional rails, and dispensers. The restock compartment can only be accessed by authorized users. See "Implementation" on page 4-1 for details.

Rail Frame

After opening the restock door, the user slides the rail frame out to access the dispensers. The rail frame is comprised of the entire outer rail—front, back, and sides.

Rails (Fixed and Optional)

Rails A, C, and D are fixed rails. Fixed rails are considered permanent and must be present for the OmniDispenser to function properly.

Rails B and E are optional rails. Optional rails are held in place by a large front mounting screw, for easy installation or removal. See "Implementation" on page 4-1 for instructions on installing or removing optional rails.

Dispensers

The quantity, type, and layout of the dispensers are determined by the needs of the facility and various configuration limitations. Each dispenser has a green button and guiding light LED to aid in inventory and diagnostics functions.

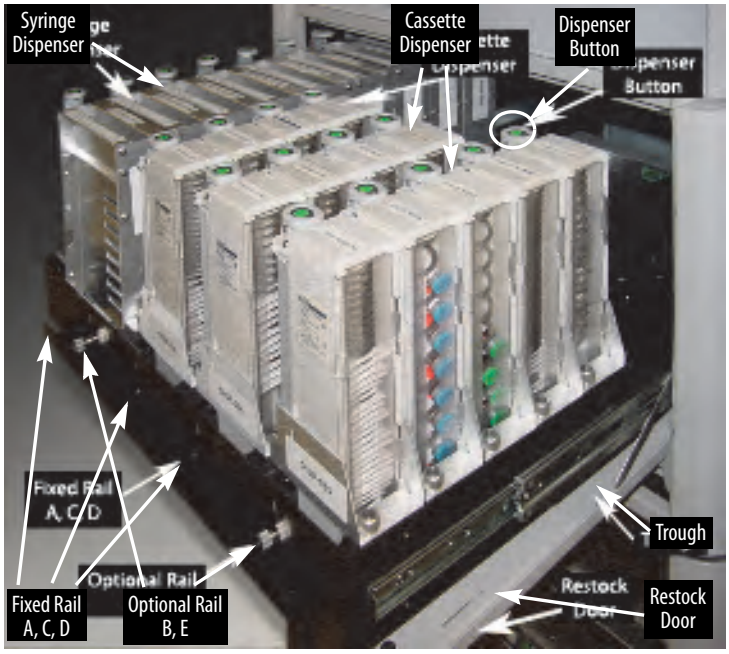


Figure 2-2. Omni Dispenser Restock Compartment

System Information

Drawer Type and Name

From a software perspective, the OmniDispenser module (ODM) is considered a Pharmacy II (high-density) drawer, and has the following attributes:

- Drawer name is OmniDispenser.
- Drawer type is 75 (0x4B).
- Occupies 6 drawer positions.

Note: As with any Pharmacy II drawer, the OmniDispenser module must be programmed upon installation by using the dispense drawer button. See "Implementation" on page 4-1 for details.

Module Placement

There are three available OmniDispenser module types:

- OmniDispenserTall (ODMTall)—OmniDispenser module designed to fit in 1-, 2-, and 3-cell OmniSupplier Color Touch/auxiliary cabinets; includes a 1/2 door over the bottom zone [up to 6 shelf positions] (option kit #12-8009).
- OmniDispenserPlus3 (ODMPlus3)—OmniDispenser "Tall" plus 3-drawer pharmacy carrier (option kit #12-8008).
- OmniDispenserRX (ODMRx)—OmniDispenser module designed to fit in an OmniRX Color Touch cabinet (option kit #12-8010).

The OmniDispenser module, by itself, occupies six (6) drawer positions. ODMTall occupies two zones (OmniDispenser module plus 1/2 door). ODMPlus3 modules occupy nine (9) drawer positions (OmniDispenser module plus 3-drawer carrier).

Each Color Touch main cabinet (brain) can support multiple OmniDispenser modules; there is a theoretical software limitation of 126 Pharmacy II drawers and/or OmniDispensers per "brain".

From a software standpoint, an ODM can be installed anywhere that it will fit within in a zone, where Pharmacy II (high-density) drawers are supported. However, certain hardware limitations and usage considerations apply:

ODMTall and ODMPlus3 Placement Rules

- ODMs cannot be placed in the top-most zone—above the computer.
- The first ODM installed should placed directly below the computer, in zone 1; subsequent ODMs should be placed in the closest possible proximity to the Color Touch screen (main PC Box)—ideally in the middle zones (zones 4 and 7 of a 3-cell cabinet).
- If an ODM is to be placed below a supply zone, a top cover must also be ordered (option kit 12-8011).

Note: While it is possible to place ODMs in lower zones, it is not recommended. From an ergonomic standpoint, retrieving medications and performing inventory functions is easiest for the user when the ODM is placed in a middle zone—directly under the computer.

Figure 2-3. ODMTall Modules; ODMPlus 3 Modules (right: with 9 -drawer below); ODM Tall/ ODMPlus3

ODMRx Placement Rules

- The first ODM installed should be placed in the top-most position.
- An additional ODM can be placed below the first ODM, followed by a single drawer position (for pharmacy drawer or dummy front). However, it is preferable to place any additional modules in nearby auxiliary cabinets, rather than placing an ODM in the lower zone.

Figure 2-4. ODMRx

Rail Configuration

Options/Rules

Rails A, C, and D are considered fixed rails, and always present.

Rails B and E are optional, and can be ordered with the cabinet or purchased and installed at a later date, as needed.

The following rail configurations are supported:

- A, B, C, D, E—5 columns of 9 single-width dispensers (supports up to 45 single-width dispensers).
- A, B, C, D or A, C, D, E—1 column of double-width and 3 columns of single-width dispensers (supports up to 9 double-width and 27 single-width dispensers with exception of double-cassette dispensers).
- A, C, D—2 columns of double-width and 1 column of single-width dispensers (supports up to 18 double-width and 9 single-width dispensers with exception of double- cassette dispensers).

Note: Users can view the OmniDispenser module rail configuration via the Diagnostics screen. See "Software Functional Overview" on page 3-1 for examples.

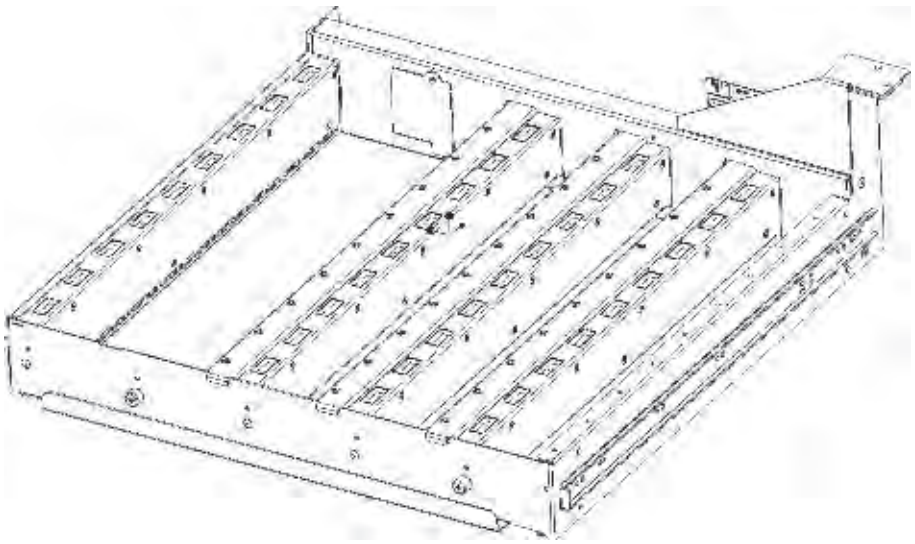


Figure 2-5. ODM Rail Assembly

Automatic Rail Configuration Detection

During startup, the cabinet software "interrogates" the OmniDispenser to determine the current rail configuration (see Note). This also occurs when the user presses the Reload Hardware Configuration or Reset Wireway and Module buttons. However, the cabinet must be powered down prior to installing or removing rails. When the cabinet is rebooted, the new configuration is automatically detected.

Since rails A (0), C (2), and D (3) are fixed rails, an error is generated if they are not present.

Communication with OmniCenter

OmniDispenser configuration information is sent to the OmniCenter, for bin assignment and reporting purposes. This communication includes the drawer type (75 [0x4B]), rail configuration and addressing.

Possible rail configurations/addresses that can be sent are as follows:

Rail Divider	Address Range	Rail Type Description
Rail 0 (A)	0-8	Fixed—always present
Rail 1 (B)	9-17	Optional
Rail 2 (C)	18-26	Fixed—always present
Rail 3 (D)	27-35	Fixed—always present
Rail 4 (E)	36-44	Optional
Rail 10 (E)	0-16	Rail identifier sent when rail 1 (B) is not present. Uses rails A and B addresses, and may contain double cassette dispenser. Not visible to the user.

Table 2-1. Rail Configurations

Dispenser Configuration Options

The following rules apply to dispenser placement within the OmniDispenser:

- Double-width dispensers can occupy any/all of the 9 rail positions in either the first (A) or the fourth (D) columns, with the exception of double-cassette dispensers.
- Double-cassette dispensers must be placed in the first (A) column, and can only occupy the first 8 rail positions.

Addressing Scheme

Each OmniDispenser module has up to 45 assignable locations, as illustrated in the following chart:

Row #	Rail Divider A	Rail Divider B (optional)	Rail Divider C	Rail Divider D	Rail Divider E (optional)
9	8 (A9)	17 (B9)	26 (C9)	35 (D9)	44 (E9)
8	7 (A8)	16 (B8)	25 (C8)	34 (D8)	43 (E8)
7	6 (A7)	15 (B7)	24 (C7)	33 (D7)	42 (E7)
6	5 (A6)	14 (B6)	23 (C6)	32 (D6)	41 (E6)
5	4 (A5)	13 (B5)	22 (C5)	31 (D5)	40 (E5)
4	3 (A4)	12 (B4)	21 (C4)	30 (D4)	39 (E4)
3	2 (A3)	11 (B3)	20 (C3)	29 (D3)	38 (E3)
2	1 (A2)	10 (B2)	19 (C2)	28 (D2)	37 (E2)
1	0 (A1)	9 (B1)	18 (C1)	27 (D1)	36 (E1)

Table 2-2. Addressing Scheme

Location Description

When dispenser locations are referred to various software functions and reports, the following format is observed.

(Cabinet W), (Zone X), (Dispenser YZ), where:

W = Cabinet number from 0 to 13.

X = Zone number from 0 to 8.

Y = Column position from A to E

Z = Row position from 1 to 9.

Example: Cabinet 0, Zone 1, (Dispenser) A1

Note: In most cases the dispenser position appears without a descriptor (A1). The letter refers to the rail. The number refers to the dispenser position on that rail. Example: rail A, dispenser position 1

Dispensing Behavior

OmniDispenser dispensing behavior is similar to existing Sure-Med unit dose module, with a few exceptions. These, and other behavioral considerations are noted in the following sections.

Dispense Drawer

When the user issues an item, the OmniDispenser dispense drawer unlocks but does not pop open. After the item (or items) is dispensed, the dispense drawer LED flashes and the user opens the drawer to retrieve the medication(s).

Multiple OmniDispensers

There can be more than one OmniDispenser per "brain". If multiple items are selected that reside in the same cabinet, the dispense sequence takes place left to right, top to bottom (e.g. an item in zone 4 dispenses before an item in zone 1). If multiple items are selected that reside in different cabinets, the OmniDispenser module with the lowest cabinet number is dispensed first.

FIFO for Multiple Bins

The Always use FIFO (first in, first out) for Multiple Bins configuration option affects dispensing behavior for OmniDispenser and Sure-Med unit dose modules (see the Implementation chapter, Configuration Options section for more details). This option affects the dispense order for multi-bin items assigned across one or more unit-dose dispensers and/or other pharmacy bins (non-unit-dose).

If enabled, the software issues the item from the same bin until empty, then moves on to the next bin, and so on. If disabled, the software issues from all dispenser locations first, before dispensing from any drawer/non-dispenser locations. In this case, issues revert back to the dispenser(s) immediately upon restock, regardless of the bin level of the currently indicated bin.

Note: If Always use FIFO... is enabled and a dispense error occurs on a multi-bin item, the software moves on to the next bin in the sequence.

Dispense Errors

OmniDispenser firmware reports detailed dispense error and retry information to the OmniCenter (ZALM command and log file). Possible error information includes:

- Detector Gain at Max (emitters too dim).
- Detector Gain at Min (emitters too bright).
- Detector backoff puts gain at max
- Detector bank failed
- Bus communication failure
- Emitter bank failed
- Sideboard time-out
- Total current exceeds module limits
- 12V input #1 exceeds current limit
- 12V input #2 exceeds current limit

When a dispense error occurs, it is automatically logged in the Item Bin record at the OmniCenter. Performing a restock on a dispenser clears any existing error and notifies the OmniCenter to remove the dispenser error flag from the Item Bin record.

If a dispenser is above reorder level but has a dispense error, the user can clear the error by pressing the Clear Dispenser Error button during Modify Bin or Cycle Count. This is particularly useful in cases where a dispense error is indicated, but the bin is full to capacity and can not be restocked.

The presence of the Clear UD Dispenser Error button does not indicate a dispense error. This button simply allows the user to clear errors for the selected dispenser, as needed.

Once pressed, any existing error is cleared and the button disappears until the next dispenser is selected (or the same dispenser is selected again).

Note: It is recommended that Cycle counts be performed at regular intervals (e.g. once per week) instead of relying on restock to discover/resolve discrepancies for slow moving medications.

Dispense Transactions

All dispenses are logged as DISP transactions in the log file, for easier reference. Sample log entries are as follows:

JT 00 INFO DISP 15:08:11.58 Dispense Time for Aux 1 Zone 1, Drawer 1 C3 = 1.930 seconds -- OK

JT 00 WARN DISP 15:08:44.92 Dispense Time for Aux 1 Zone 1, Drawer 1 C3 = 4.340 seconds -- Retried

JT 00 ERRO DISP 15:08:51.95 Dispense Time for Aux 1 Zone 1, Drawer 1 C3 = 5.440 seconds -- Failed

Returning Medications

Since users can not access the restock door/dispensers, OmniDispenser medications can not be returned to the original bin. As such, all OmniDispenser items must be returned to a cabinet return bin (preferably an Omnicell ERB, external return bin).

Time-out Behavior

Please Open Dispense Drawer Time-out

The Transaction Middle Time-out configuration setting determines the amount of time the user has to open dispense drawer during a transaction. If the user does not open the dispense drawer within the set amount of time, a warning sounds and the user is logged out. If any items were dispensed during the transaction, a null transaction is sent to the OmniCenter (null type DN: Dispense Drawer Not Opened).

The software does not monitor non-retrieved items, and does not check control level access for subsequent users if the previous transaction timed-out with items left in the dispense drawer. If items remain in the dispense drawer after the transaction times-out, the user can access the dispense drawer via the Diagnostics function or retrieve the medications during the next issue transaction.

This behavior does not apply during diagnostics functions.

Please Open Restock Door Time-out

The Inventory Time-out configuration setting determines the amount of time the user has to open restock door during an inventory function. If the user does not open the restock door within the set amount of time, a warning sounds and the user is logged out.

Forced Entry Detection

Per usual functionality, if the Forced Entry Detection is enabled, and the restock door is opened when it is supposed to be locked, a warning sounds and a null transaction (null type: FE) is sent to the OmniCenter.

Inactive Access

Per usual functionality, when a user opens the OmniDispenser restock door, the inactive access feature is enabled for all items in the module that are flagged for inactive access. The number of times the user opens the restock door during a session is not recorded, only that they had access to the items contained in the OmniDispenser.

EEPROM Configuration Settings

A number of configurable values are stored in OmniDispenser's EEPROM. Most of these are accessible directly through the cabinet software, via the Omni Config function. EEPROM settings are pre-set in the manufacturing build process and should not be adjusted. If any future changes are required, proper settings and instructions will be expressly communicated to the field and Technical Support by Omnicell Engineering.

Note: EEPROM settings are pre-set in the manufacturing build process and should not be adjusted without direct instruction from Omnicell Engineering.

Software Functional Overview

This section provides an overview of the system behavior and user functions related to the OmniDispenser module. For OmniDispenser setup and configuration information, see "Implementation" on page 4-1.

Automatic Diagnostics

All OmniDispenser diagnostics run automatically during midnight processing. All diagnostics, except the emitter diagnostic, run whenever the module is initialized.

If a failure occurs during automatic diagnostics, a ZALM message is sent to the OmniCenter. The error is also logged at the OmniSupplier.

Color Touch Functionality

Note: Omnicell personnel must be supervised by authorized pharmacy staff when performing any functions that involve access to controlled medications.

Diagnostics

The OmniDispenser diagnostics function is similar to Omnicell drawer diagnostics. The user presses the **Diagnostics** button (under **Admin Menus**) on the Color Touch screen, then presses either the restock door or dispense drawer button on the OmniDispenser.

While the OmniDispenser diagnostics are running, all door solenoids in the same cabinet are locked. Those that were previously unlocked will be unlocked again once diagnostics are complete. This is done to conserve power. The rail configuration displays for the selected OmniDispenser module.

To access the following functions:

1. Log into the cabinet as an Omnitech user.
2. Press **Diagnostics** from the Admin Menu.

Restock Door Behavior

Note: In order to access the restock door, UD Access must be enabled for that user in the Users database.

During the diagnostics function, the restock door behaves as follows:

- When the user presses the restock door button, the restock door unlocks and the LED turns on.

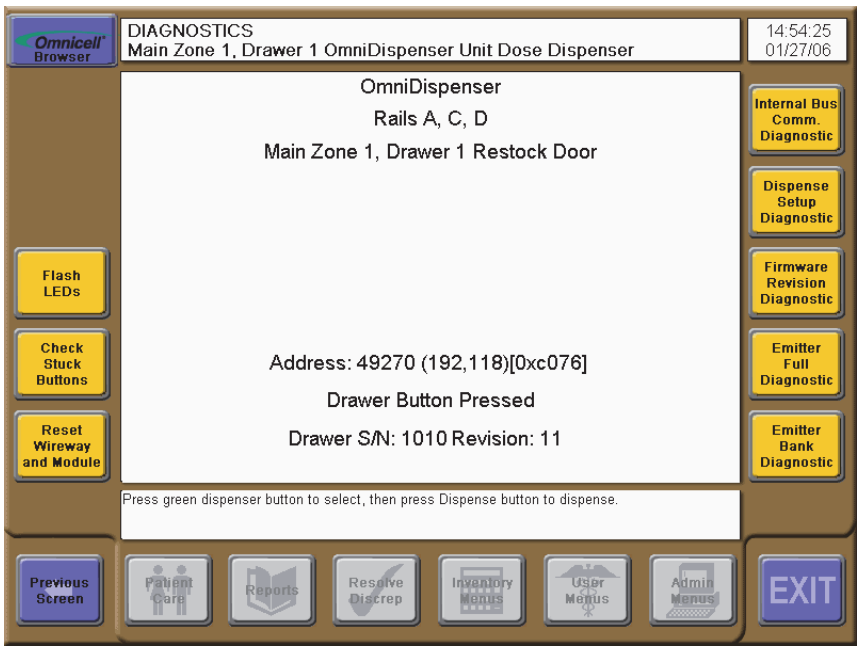


Figure 3-1. Restock door button pressed

- When the user opens the restock door, the restock door LED flashes.

Figure 3-2. Restock door opened

- When the user closes the restock door, the restock door locks, and LED turns off.

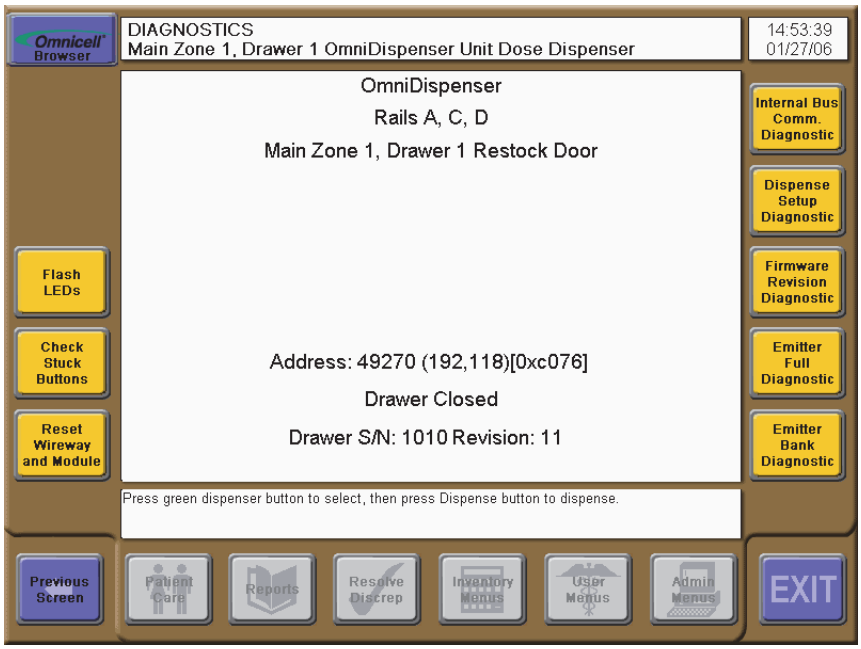


Figure 3-3. Restock door closed

Dispenser Drawer Behavior

During the diagnostics function, the dispense drawer behaves as follows:

- When the user presses the dispense drawer button, the dispense drawer unlocks and the LED turns on.

Figure 3-4. Dispense drawer button pressed

- When the user opens the dispenser drawer, the dispense drawer LED flashes.

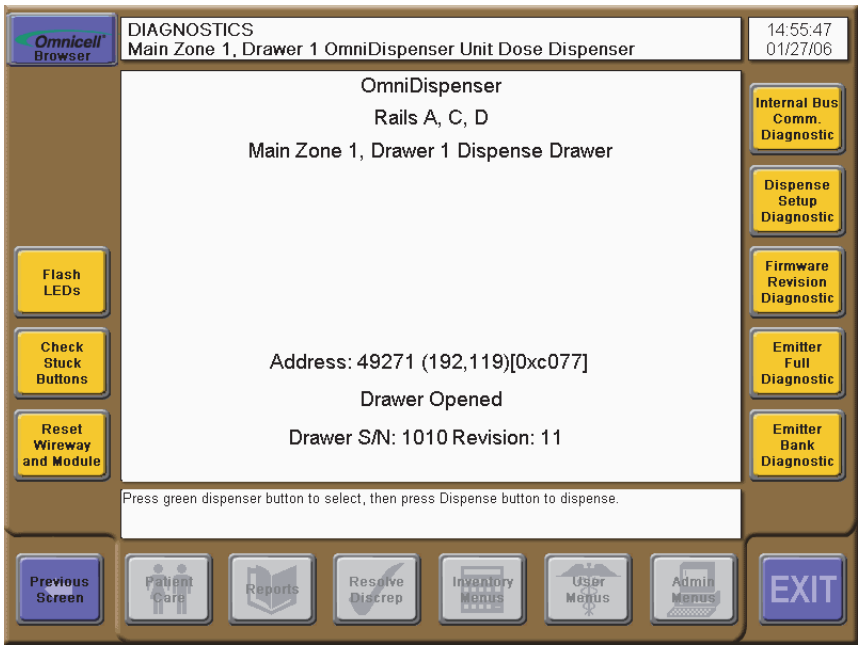


Figure 3-5. Dispense drawer opened

- When the user closes the dispense drawer, the dispense drawer locks, and LED turns off.

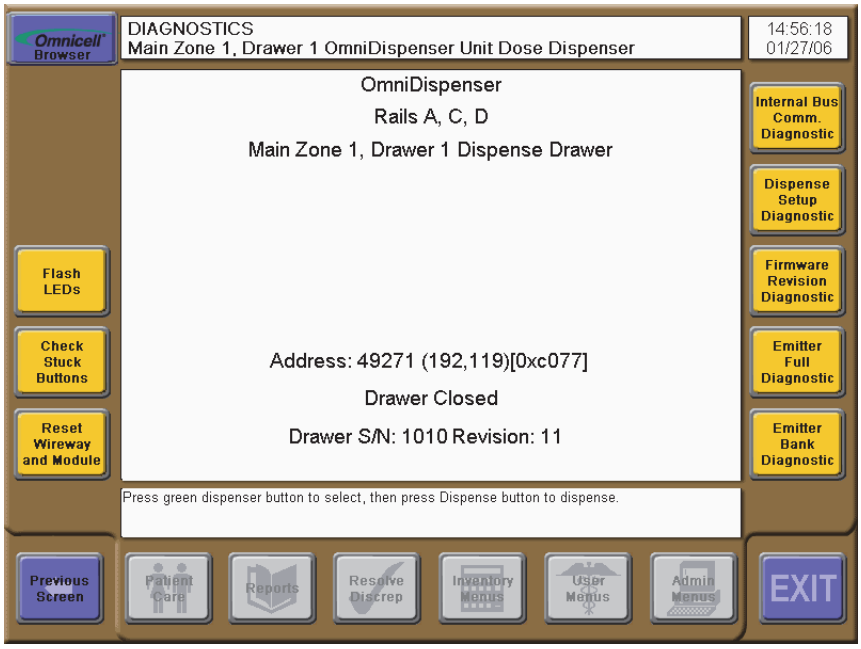


Figure 3-6. Dispense drawer closed

Dispenser Behavior

During the diagnostics function, dispensers behave as follows:

- When the user presses a dispenser button, the dispenser's LED flashes.

Dispense Function

The **Dispense** button displays on the Diagnostics window once the user has pressed a dispenser button. The **Dispense** button remains available throughout the session, until the user opens the dispense drawer or exits diagnostics.

Prior to pressing **Dispense,** the user should either position the rail frame so that selected dispenser is over the trough in the restock door (recommended method) or push in the rail frame so that the medication falls directly into the dispense drawer.

Pressing the **Dispense** button causes the dispenser to dispense one unit of medication. The results of the dispense are displayed in the window and logged. These include status (OK /Retry / Fail), the elapsed time, and any extended status from the firmware, if applicable.

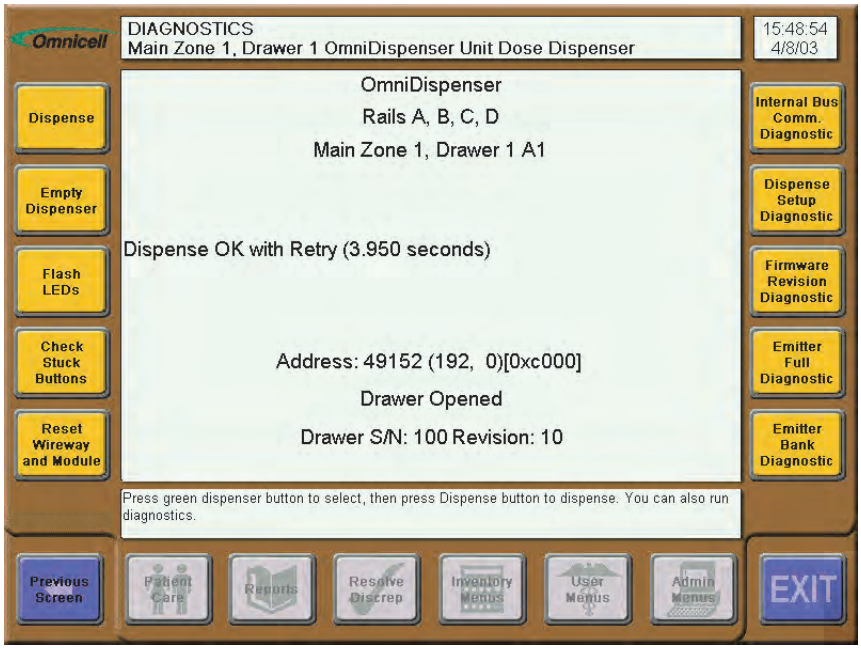


Figure 3-7. Dispense Results

Note: Dispense errors that occur while using the diagnostic function are not reported to the OmniCenter.

If dispensing into the dispenser drawer, the user can press the **Unlock Dispense Drawer** button to retrieve the medication, or select another function. If the user closes the restock door, the **Unlock Restock Door** button also displays.

Any items dispensed must be placed back into the dispenser. There is no user interface for replacing the items.

Empty Dispenser Function

The **Empty Dispenser** button displays on the Diagnostics window once the user has pressed a dispenser button, as well as during various user functions where countback may be required. The **Empty Dispenser** button remains available throughout the session, until the user opens the dispense drawer or exits diagnostics.

Prior to pressing **Empty Dispenser**, the user should either position the rail frame so that selected dispenser is over the trough in the restock door (recommended method) or push in the rail frame so that the medication falls directly into the dispense drawer.

Pressing the **Empty Dispenser** button causes the selected dispenser to dispense until empty or until an error occurs. The number of units dispensed is displayed only during Diagnostics. (There is no quantity display for other functions.) If the quantity dispensed is greater than zero (0), a null transaction is sent to the OmniCenter (null type DD).

If emptying into the dispenser drawer, the user can press the **Unlock Dispense Drawer** button to retrieve the medication, or select another function. If the user closes the restock door, the **Unlock Restock Door** button also displays.

Any items dispensed must be placed back into the dispenser. There is no user interface for replacing the items.

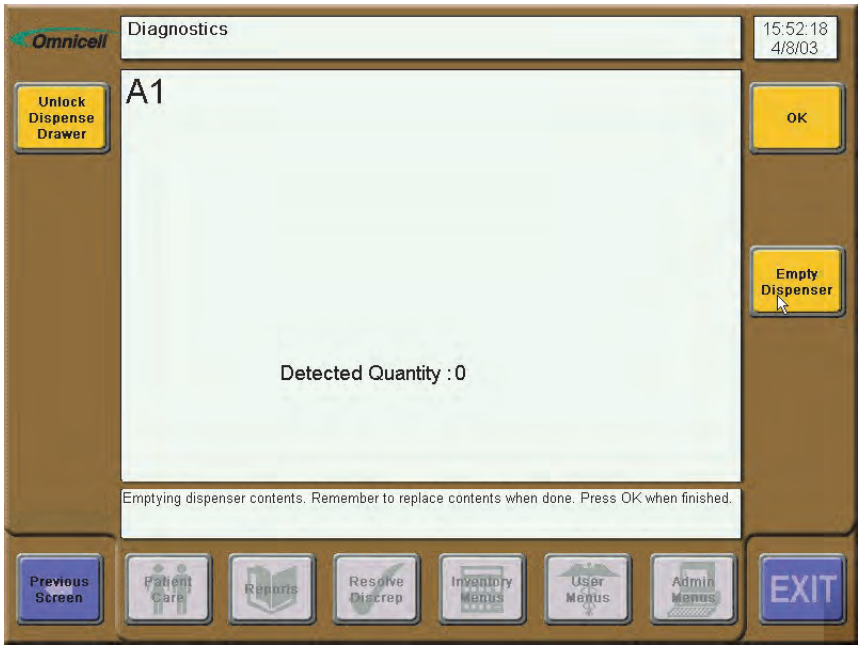


Figure 3-8. Empty Dispenser Results

Reset Wireway and Module Function

Pressing the **Reset Wireway and Module** button resets the wireway and reloads the rail configuration for the selected OmniDispenser module.

Internal Bus Communications Diagnostics

Pressing the **Internal Bus Comm Diagnostic** button causes the firmware internal bus communication diagnostic to run. This diagnostic also runs automatically, during midnight processing, and whenever the module is initialized (during startup or when programming the module). The possible results are:

- Pass
- Internal bus communication time-out
- Internal bus communication corruption

If the diagnostic fails, the board with the first failure is identified. Subsequent failures, if any, are not identified.

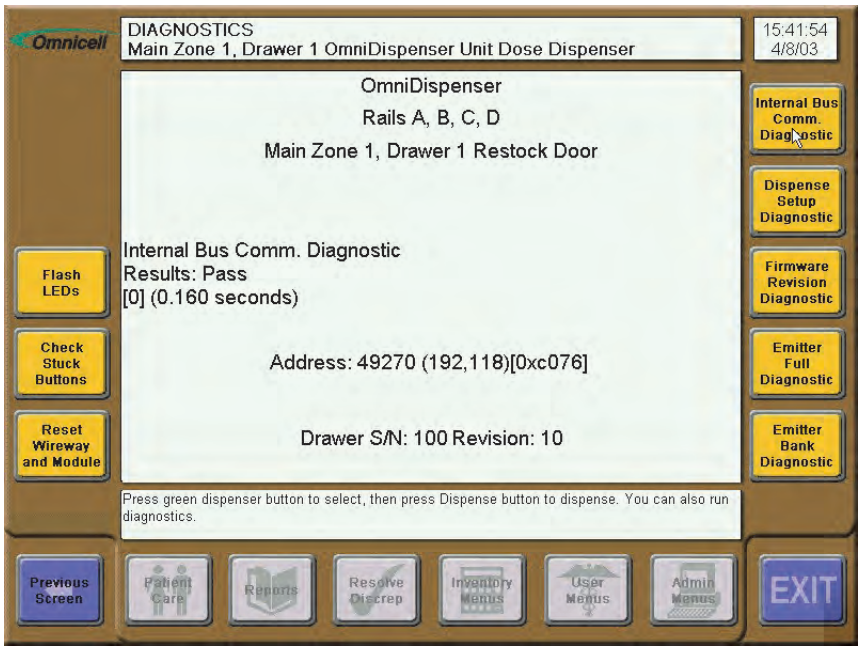


Figure 3-9. Internal Bus Communications Diagnostics Results

Dispense Setup Diagnostics

Pressing the **Dispense Setup Diagnostic** button causes the firmware dispense setup diagnostic to run. This diagnostic also runs automatically, during midnight processing, and whenever the module is initialized (during startup or when programming the module). The possible results are:

- Pass
- Time-out during stop unsolicited messages phase
- Corrupted communication during stop unsolicited messages phase
- Time-out while turning on emitters
- Corrupted communication while turning on emitters
- Time-out while turning on detector
- Corrupted communication while turning on detector
- Detector side A at max gain
- Detector side B at max gain
- Detector side A at minimum gain
- Detector side B at minimum gain
- Detector side A backoff beyond maximum gain
- Detector side B backoff beyond maximum gain
- Time-out during internal dispenser command

If the diagnostic fails, the bank number with the first failure is identified. Subsequent failures, if any, are not identified. The bank numbers are as follows:

- Bank 0 = dispensers A1, B1, C1, D1, E1
- Bank 1 = dispensers A2, B2, C2, D2, E2
- Bank 2 = dispensers A3, B3, C3, D3, E3
- Bank 3 = dispensers A4, B4, C4, D4, E4
- Bank 4 = dispensers A5, B5, C5, D5, E5
- Bank 5 = dispensers A6, B6, C6, D6, E6
- Bank 6 = dispensers A7, B7, C7, D7, E7
- Bank 7 = dispensers A8, B8, C8, D8, E8
- Bank 8 = dispensers A9, B9, C9, D9, E9

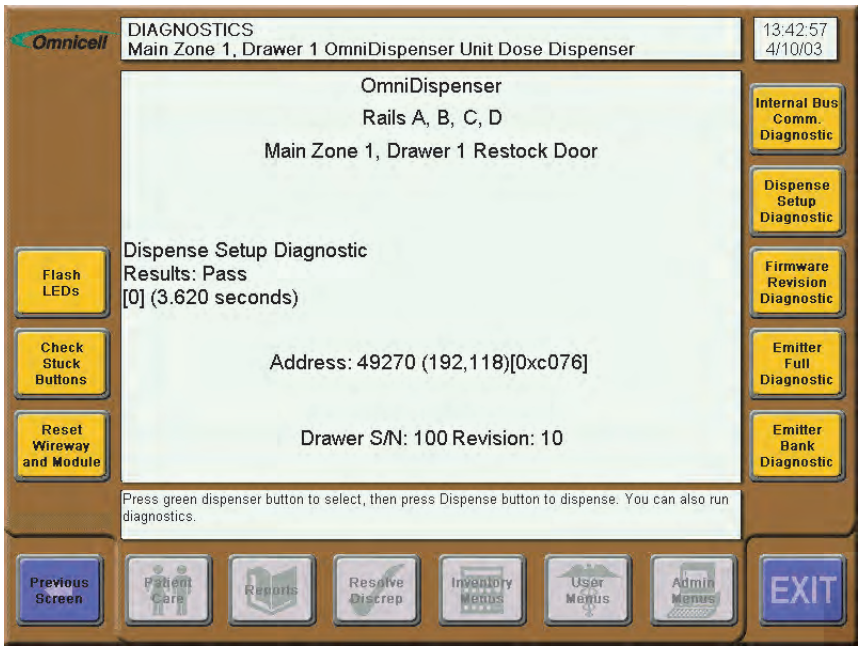


Figure 3-10. Dispense Setup Diagnostics Results

Firmware Revision Diagnostics

Pressing the **Firmware Revision Diagnostic** button causes the firmware revision diagnostic to run. This diagnostic also runs automatically, during midnight processing, and whenever the module is initialized (during startup or when programming the module). The possible results are:

- Pass
- Internal Bus Communication time-out
- Internal Bus Communication corruption
- Board Firmware lower than sideboard
- Board Firmware higher than sideboard

If the diagnostic fails, the board with the first failure is identified. Subsequent failures, if any, are not identified. In this event, the boards with the lowest firmware versions must be replaced or upgraded to match the board with the highest firmware version.

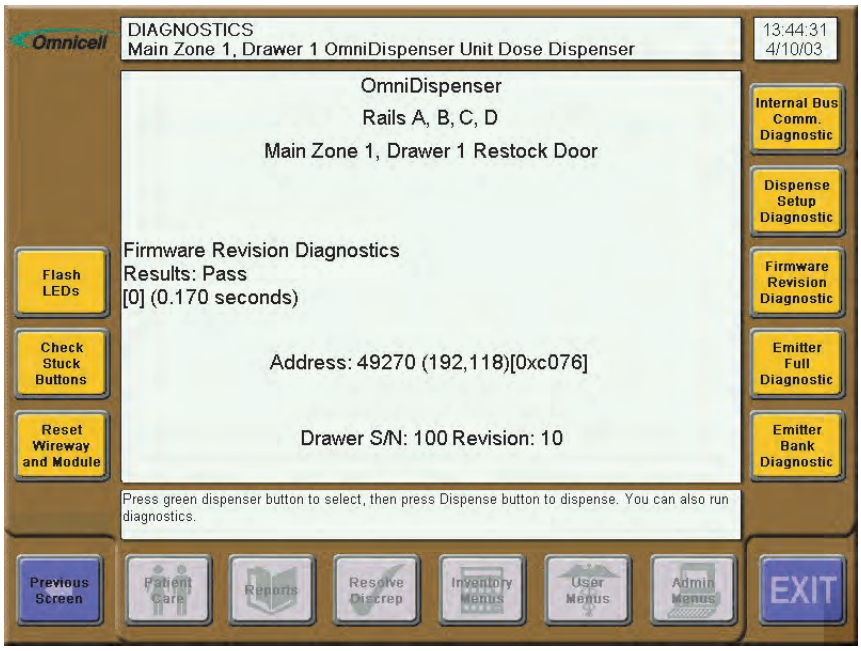


Figure 3-11. Firmware Revision Diagnostics Results

Emitter Full Diagnostics

Pressing the **Emitter Full Diagnostic** button causes the firmware emitter diagnostic to run. This diagnostic also runs automatically, during midnight processing. Due to the length of the test (1 to 5 minutes), a message box asks the user for confirmation to run the test. The possible results are:

- Pass
- Internal bus communication time-out
- Internal bus communication corruption
- Detector failed
- Emitters failed
- Detector stuck

If the diagnostic fails, the bank number with the first failure is identified. Subsequent failures, if any, are not identified. The bank numbers are as follows:

- Bank 0 = dispensers A1, B1, C1, D1, E1
- Bank 1 = dispensers A2, B2, C2, D2, E2
- Bank 2 = dispensers A3, B3, C3, D3, E3
- Bank 3 = dispensers A4, B4, C4, D4, E4
- Bank 4 = dispensers A5, B5, C5, D5, E5
- Bank 5 = dispensers A6, B6, C6, D6, E6
- Bank 6 = dispensers A7, B7, C7, D7, E7
- Bank 7 = dispensers A8, B8, C8, D8, E8

- Bank 8 = dispensers A9, B9, C9, D9, E9

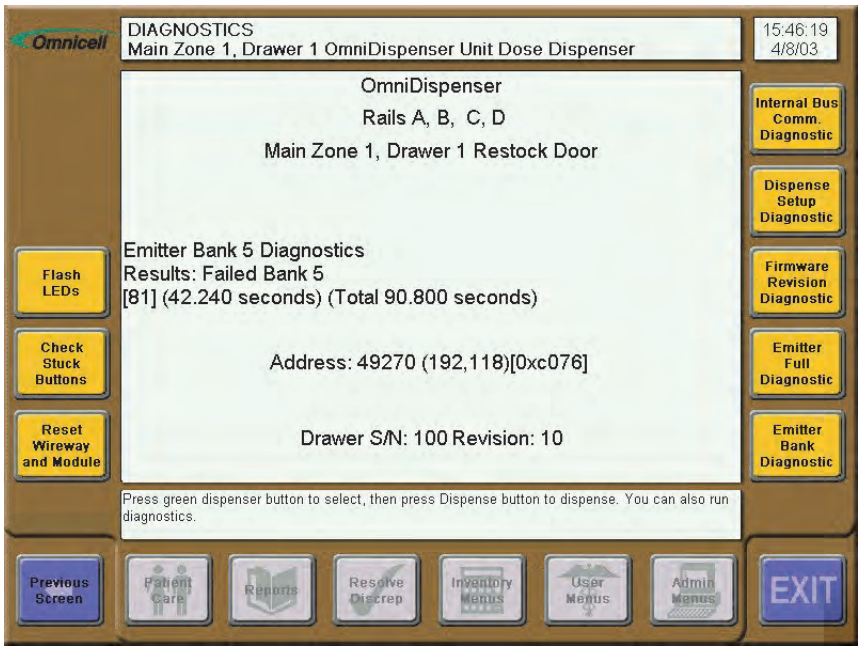


Figure 3-12. Emitter Full Diagnostics Results

Check Stuck Buttons

If a drawer button is stuck, press **Check Stuck Buttons** for a diagnostic on the problem. The screen will display the results.

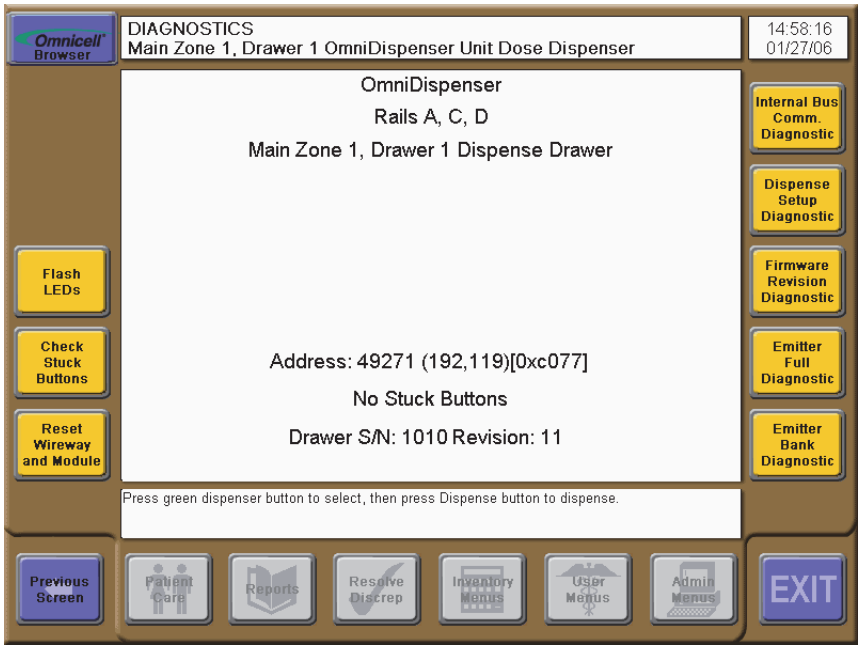


Figure 3-13. Stuck Button Diagnostic

Emitter Bank Diagnostics

Pressing the **Emitter Bank Diagnosti**c button displays the emitter bank diagnostic window. The user selects the banks to be tested, and once started, can cancel the test as needed, between banks. The possible results are:

- Pass
- Internal bus communication time-out
- Internal bus communication corruption
- Detector failed
- Emitters failed
- Detector stuck

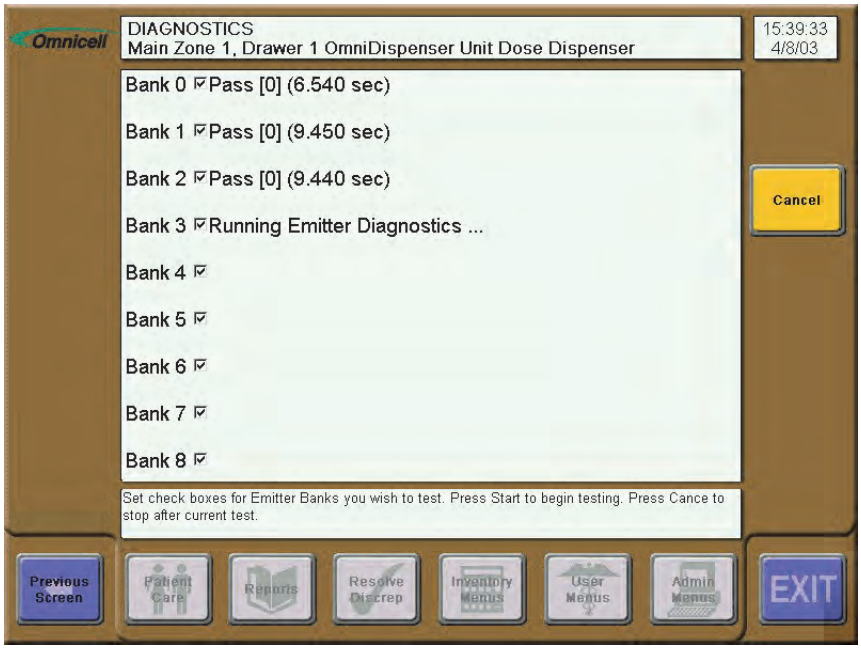


Figure 3-14. Emitter Bank Diagnostics Results

Normal Restock

When a selected restock list contains OmniDispenser items, the applicable restock door and dispenser LEDs flash. To select an item to restock, the user presses a flashing dispenser button. Once pressed, the LED changes to steady on, and all other flashing LEDs are turned off. The user presses the button once more when restock of the item is complete. Once complete, that dispenser LED turns off, and the remaining LEDs resume flashing.

If a dispenser error occurs, the OmniCenter sets the restock record **DISPERROR** field to Y (Yes). When the restock report is generated, the item appears on the report and is marked with an asterisk (*). Additionally, the following message displays at the cabinet when the user restocks that dispenser: This dispenser has reported errors, please check.

To perform a normal restock:

1. Log into the cabinet, then press **Inventory Menus.**
2. Press **Normal Restock**.
3. Select the desired restock from the list.
4. Press the flashing restock door button, then open the door.
5. Press a flashing dispenser button to select.
6. If the countback window is displayed, verify the current bin level as follows:
   a. If needed, press **Empty Dispenser** to count the item. Refer to "Empty Dispenser Function" on page 3-5 for details.
   b. Press **Yes** if the bin level displayed is correct.

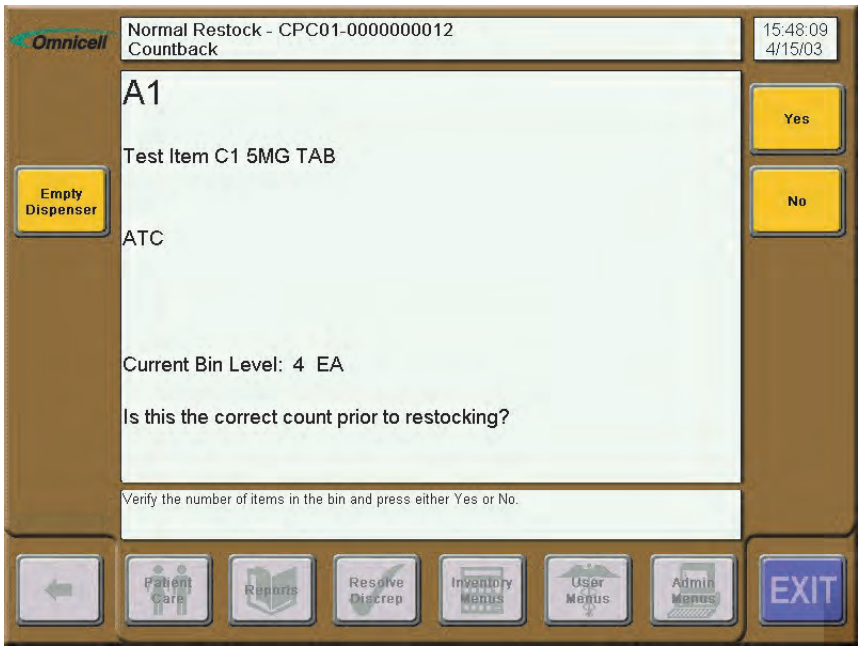


Figure 3-15. Normal Restock: Countback

c. Press **No** if the bin level displayed is incorrect, then enter the actual countback amount.

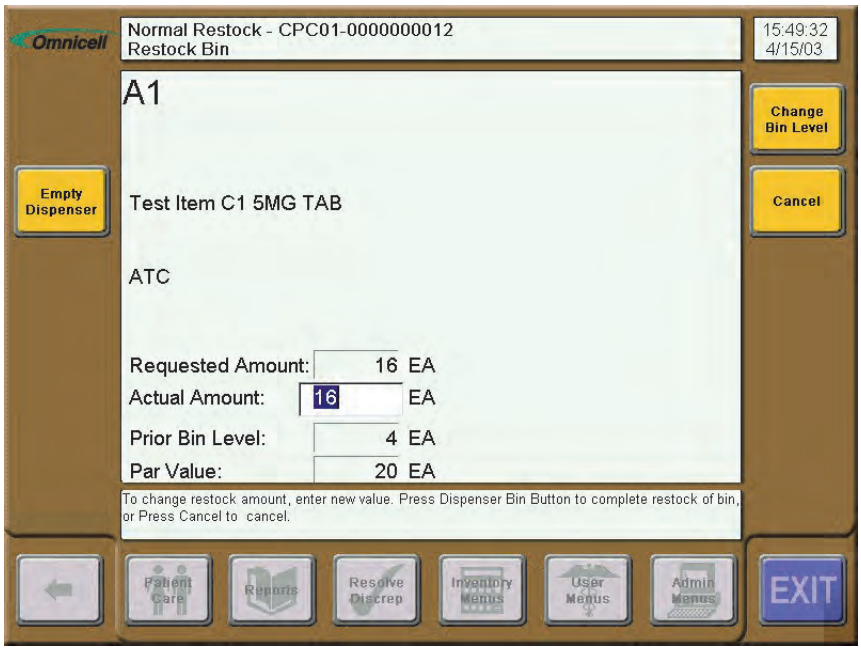


Figure 3-16. Normal Restock: Restock Bin

7. Enter the restock quantity in the **Actual Amount** field.
8. Restock the item, then press the dispenser button again.
9. Repeat steps 5-8 until restock is complete, then close the restock door.
10. Press **Exit** to finish.

Supplemental Restock

To perform a supplemental restock of OmniDispenser items, the user first pre-selects the items. When the user presses **Restock Now**, the restock door flashes and unlocks, and first applicable dispenser LED flashes. The user presses the flashing dispenser button to restock that item. Once pressed, the LED changes to steady on, and the LED of the next item, if any, flashes. The user can then press the LED of the next item to restock or, if finished, close the restock door.

If any of the items in the OmniDispenser require a witness, witness information must be entered before the restock door will unlock. Once entered, the witness applies to all witness-required items for that restock.

To perform a supplemental restock:

1. Log into the cabinet, and press **Inventory Menus**.
2. Press **Supplemental Restock**.
3. Press the **Restock Items** button.
4. Select an item from the list.
5. Enter the **Quantity to Restock**.
6. Repeat steps 4-5 as needed, then press **Restock Meds Now**.
7. Enter witness, if required.

8. Open the restock door.
9. Press the flashing dispenser button.
10. If the countback window displays, verify the current bin level as follows:
    a. If needed, press **Empty Dispenser** to count the item.
    b. Press **Yes** if the bin level displayed is correct.
    c. Press **No** if the bin level displayed is incorrect, then enter the actual countback amount.
11. Enter the restock quantity in the **Actual Amount** field.
12. Restock the item, then press the next flashing dispenser button.
13. Repeat steps 10-12 until restock is complete; close the restock door to finish.

Destock

Per usual functionality, the user must pre-select the items they want to destock from the OmniDispenser. Items are then removed similarly to the Remove Meds function.

To perform a destock:

1. Log into the cabinet, and press **Inventory Menus**.
2. Press **Destock**.
3. Press the **Destock Items** button.
4. Select an item from the list.
5. Enter the **Quantity to Remove**.
6. Repeat steps 4-5 as needed, then press **Destock Meds Now**.
7. Enter witness, if required.
8. Remove the items from the dispense drawer.
9. Press **Destock Items** to destock additional items, or press **Exit** to finish.

Cycle Count

To cycle count items in an OmniDispenser, the user selects the **Cycle Count** function from the **Inventory** menu, then presses the restock door button to select that module. The user can then navigate to the item via **Find Item**, or open the restock door and either press a dispenser button directly or use the **Find Dispenser Item** function. The **Empty Dispenser** function can be used, as needed, to obtain a count. Cycle count is then completed as usual.

To perform a cycle count:

1. Log into the cabinet, and press **Inventory Menus**.
2. Press **Cycle Count**.
3. Press the restock door button and open the restock door.
4. Press **Find Dispenser Item** to navigate to an item, or press a dispenser button.

Note: When a multi-bin item is selected, the **Next Bin** button displays. This allows the user to perform the current function across all applicable bins.

A **Clear Dispenser Error** button displays during the **Cycle Count** function. This allows users to manually clear a dispense error without having to initiate a restock. The button displays/re-displays whenever a bin is selected, regardless if an error has occurred for that bin.

5. Enter witness, if required.
6. Count the item, using the **Empty Dispenser** function as needed.
7. Enter the quantity counted, then press **OK**.
8. If desired, press **Flash Uncounted Bins** to flash all remaining bins in that module.

Note: Once Flash Uncounted Bins is pressed (during Cycle Count), all uncounted bins in the module will continue to flash until they are counted or the user exits the function.

9. Repeat steps 4-8 as needed, then press **Exit** to finish.

Note: It is recommended that cycle counts be performed at regular intervals (once a week) instead of relying on restock to discover/resolve discrepancies for slow moving medications.

Expiration/Recall

To perform an expiration or recall for OmniDispenser items, the user selects the **Expired/Recalled** function from the **Inventory** menu, then presses the restock door button to select that module. The user can then navigate to the item via **Find Item**, or open the restock door and either press a dispenser button directly or use the **Find Dispenser Item** function. Expirations/recalls are then completed as usual.

To perform an expiration or recall:

1. Log into the cabinet, and press **Inventory Menus**.
2. Press **Expired/Recalled**.
3. Press the restock door button and open the restock door.
4. Press F**ind Dispenser Item** to navigate to an item, or press a dispenser button.

Note: When a multi-bin item is selected, the **Next Bin** button displays. This allows the user to perform the current function across all applicable bins.

5. Enter witness, if required.
6. Enter the **Quantity to Expire or Recall**, then press **OK**.
7. Repeat steps 4-6 as needed, then press **Exit** to finish.

Modify Bin

To access the bin modification functions:

1. Log into the cabinet.
2. Press **Inventory Menus**.
3. Press **Modify Bin**.

Note: A **Clear Dispenser Error** button displays during the **Modify Bin** function. This allows users to manually clear a dispense error without having to initiate a restock. The button displays/re-displays whenever a bin is selected, regardless if an error has occurred for that bin.

Select a Bin

There are two ways to select a dispenser:

Option 1:

1. Press the restock door button and open the door.
2. Press the button on the individual dispenser.

Option 2:

1. Press **Find Item** or open the restock door and press **Find Dispenser Item**.

Figure 3-17. Modify A Bin: Find Dispenser Item

2. Select the item from the list.

Figure 3-18. Modify A Bin: Item List

3. If the item is in multiple locations, select the desired bin from the list.

Assigning an Item

To assign an item to an empty dispenser:

1. Press the restock door button and open the door.
2. Press the button on the dispenser.
3. Press the **Assign Item** button.
4. Proceed with bin assignment as usual.

Replacing an Item Assignment

There are two ways to replace an item in a dispenser:

Option 1:

1. Press the restock door button and open the door.
2. Press the button on the dispenser.
3. Press **Assign Item**.
4. Press **Reassign Anyway** or **Assign Addition**.
5. Proceed with bin assignment as usual.

Option 2:

1. Press **Find Item** or open the restock door and press **Find Dispenser Item**.
2. Select the desired item from the list.
3. If the item is in multiple bins, select the desired bin from the list.

4. Press **Replace Item**.
5. Proceed with bin assignment as usual.

Deleting an Item Assignment

There are two ways to delete an item from a dispenser:

Option 1:

1. Press the restock door button and open the door.
2. Press the button on the dispenser.
3. Press **Delete Item**.

Option 2:

1. Press **Find Item** or open the restock door and press **Find Dispenser Item**.
2. Select the desired item from the list.
3. If the item is in multiple bins, select the desired bin from the list.
4. Press **Delete Item**.

Unassigning All Bins

To unassign/delete all items in the OmniDispenser:

1. Press the restock door button and open the door.
2. Press **Unassign All Dispenser Items**.

Setting Bin Level

There are two ways to modify the quantity of an item:

Option 1:

1. Press the restock door button and open the door.
2. Press the button on the dispenser.
3. Press **Set Bin Level**.
4. Proceed with bin level modification as usual.

Option 2:

1. Press **Find Item** or open the restock door and press **Find Dispenser Item**.
2. Select the desired item from the list.
3. If the item is in multiple bins, select the desired bin from the list.
4. Press **Set Bin Level**.

5. Proceed with bin level modification as usual.

Figure 3-19. Modify A Bin: Modify Options

Countback Always Configuration

Countback is not required for OmniDispenser items because users only have access to the medication dose(s) being dispensed. The **Enable Countback Always for Unit Dose Compartment** configuration option is disabled by default.

Countback may be required for inventory purposes. If the facility does not want to countback OmniDispenser items, **Countback Always** must be set to Disable and **Countback Req** must be set to N (no) for each dispenser item.

OmniCenter Functionality

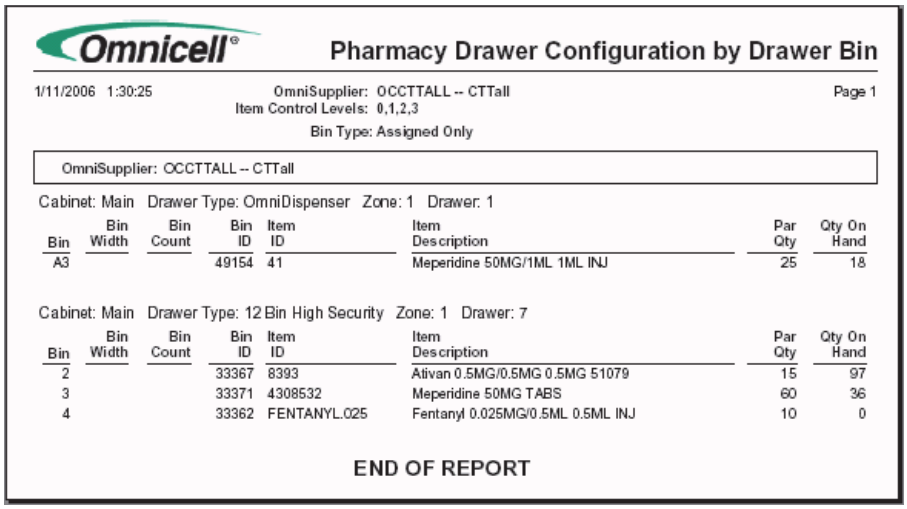
User Access to Restock Door

In order to access the OmniDispenser restock door (or Sure-Med unit dose compartment), the UD Access field must be enabled in the Users table for each applicable user. See "Implementation" on page 4-1 for more details.

Reports

Pharmacy Drawer Configuration Report

The *Pharmacy Drawer Configuration Report* displays detailed drawer or bin location information—particularly for OmniDispenser items.



Omnicell®

Pharmacy Drawer Configuration by Drawer Bin

1/11/2006 1:30:25 OmniSupplier: OCCTTALL -- CTTall Page 1
Item Control Levels: 0,1,2,3
Bin Type: Assigned Only

OmniSupplier: OCCTTALL -- CTTall

Cabinet: Main Drawer Type: OmniDispenser Zone: 1 Drawer: 1

Bin	Bin Width	Bin Count	Bin ID	Item ID	Item Description	Par Qty	Qty On Hand
A3			49154	41	Meperidine 50MG/1ML 1ML INJ	25	18

Cabinet: Main Drawer Type: 12 Bin High Security Zone: 1 Drawer: 7

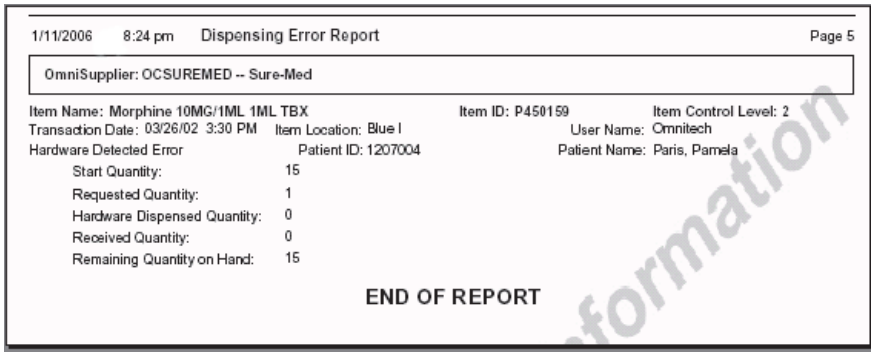
Bin	Bin Width	Bin Count	Bin ID	Item ID	Item Description	Par Qty	Qty On Hand
2			33367	8393	Ativan 0.5MG/0.5MG 0.5MG 51079	15	97
3			33371	4308532	Meperidine 50MG TABS	60	36
4			33362	FENTANYL.025	Fentanyl 0.025MG/0.5ML 0.5ML INJ	10	0

END OF REPORT

Figure 3-20. Pharmacy Drawer Configuration Report

Dispensing Error Report

The *Dispensing Error Report* includes dispensing errors and bin location information for OmniDispenser hardware. Accordingly, the report description displayed on the **OmniCenter Reports** tab reads: Lists all unit dose dispenser errors for a specified date range and OmniSupplier.



1/11/2006 8:24 pm Dispensing Error Report Page 5

OmniSupplier: OCSUREMED -- Sure-Med

Item Name: Morphine 10MG/1ML 1ML TBX Item ID: P450159 Item Control Level: 2
Transaction Date: 03/26/02 3:30 PM Item Location: Blue I User Name: Omnitech
Hardware Detected Error Patient ID: 1207004 Patient Name: Paris, Pamela

Start Quantity:	15
Requested Quantity:	1
Hardware Dispensed Quantity:	0
Received Quantity:	0
Remaining Quantity on Hand:	15

END OF REPORT

Figure 3-21. Dispensing Error Report

Message Alerts

Increase security by setting up an alert for forced entry detection (available in Omnicell v 14.2 or higher). Attempted tampering with the OmniDispenser drawer is detected by a sensor that sets off an alarm and displays a warning on the cabinet screen. A corresponding alert can be configured to be e-mailed to designated recipients.

The alarm functions the same for any type of dispense drawer access.

Forced Entry Detection

Enable forced entry detection at the cabinet:
OmniConfigs > **Pharmacy** > **Forced Entry Detection** = Yes

Verify this setting before setting up a message alert.

Message Filter Setup

1. Log into the OmniCenter as the administrator.
2. Click on the **Administrator** tab.
3. Select Setup from the Type menu.
4. Select Message Filter Setup from the Options Available menu.

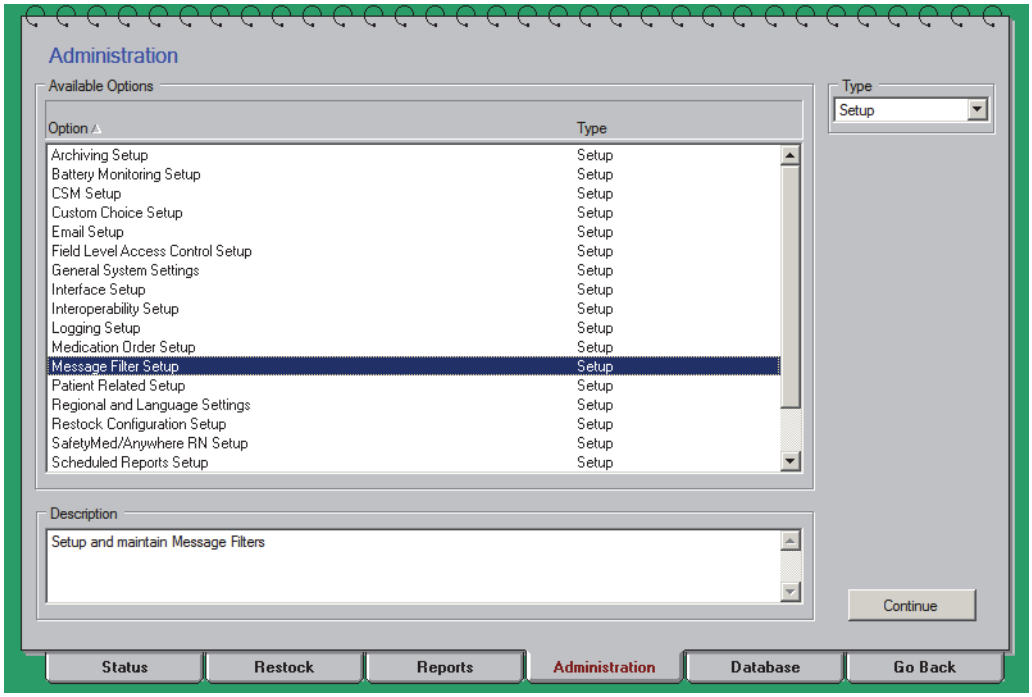


Figure 3-22. Administration Tab

5. Click **Continue.**

6. Create the tampering message.
   a. Click the **General** sub-tab.

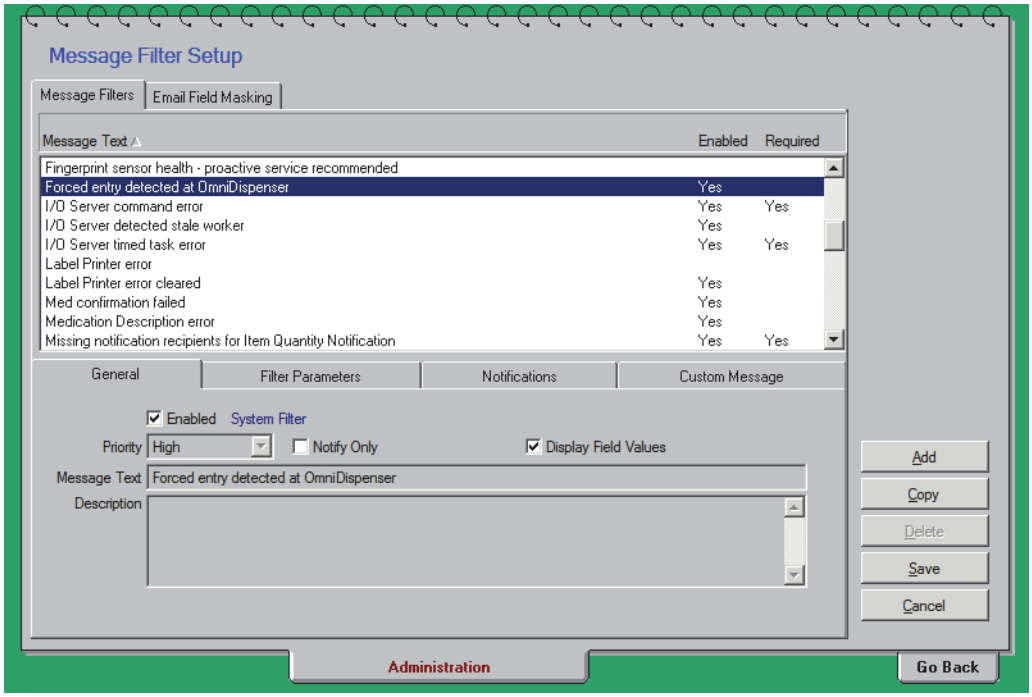


Figure 3-23. General Sub-Tab

   b. Select Forced Entry to OmniDispenser from the Message Text list or click **Add** if message does not already exist.
   c. Check the Enabled box.
   d. Set the priority level. (e.g. high)
   e. Enter Forced Entry to OmniDispenser in the Message Text field if not already populated from the text message list.
   f. Add a description if adding the message.

7. Select message parameters
   a. Click the **Filter Parameters** sub-tab.

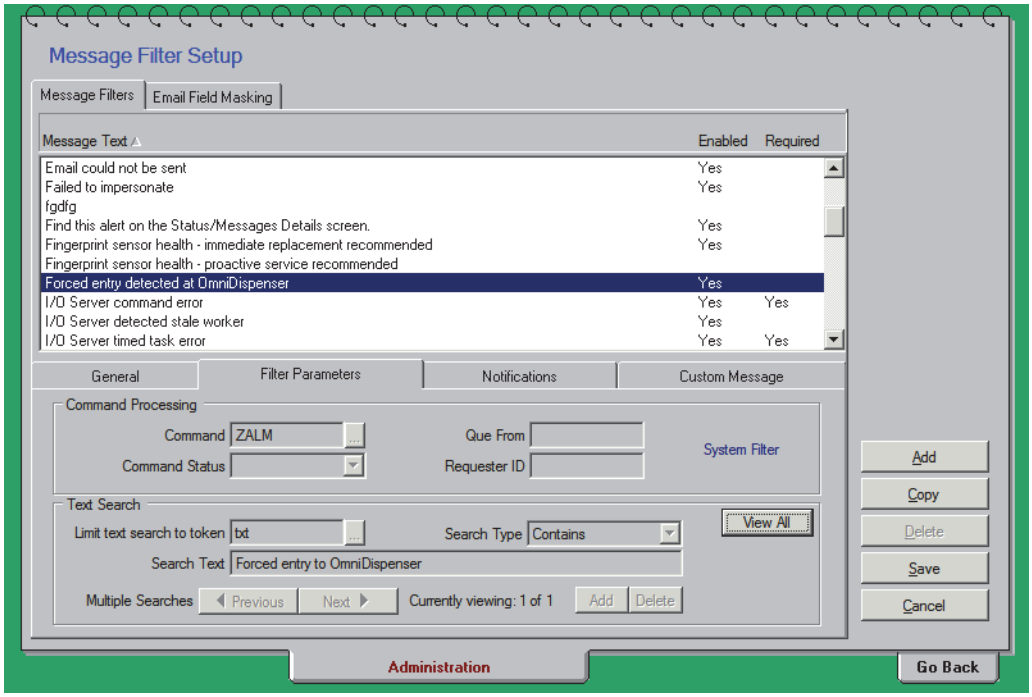


Figure 3-24. Parameters Sub-Tab

   b. Type ZALM in the Command field.
   c. Click **Details**.
   d. Type txt in the Limit Text Search To Token field.
   e. Select **Contains** for the Search Type.
   f. Enter Forced Entry to OmniDispenser in the Search Text field.

8. Create recipient list.
   a. Select the **Notification** sub-tab.
   b. Click **Add**.
   c. Select the desired recipients for the message alert from a user list and/or select a default printer. Refer to the OmniCenter User guide for the Omnicell software version running on the cabinet for details.
   d. Click **Add**.

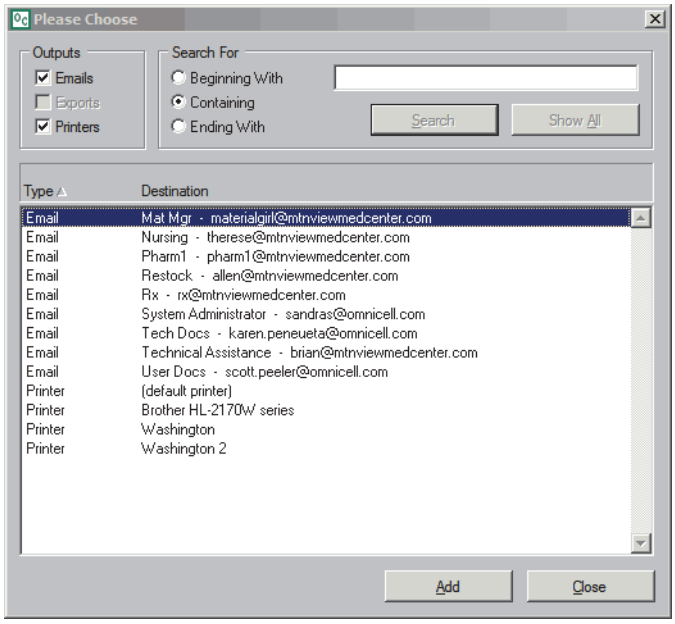


Figure 3-25. Add Window

9. Enter an optional custom message on the Custom Message sub-tab.

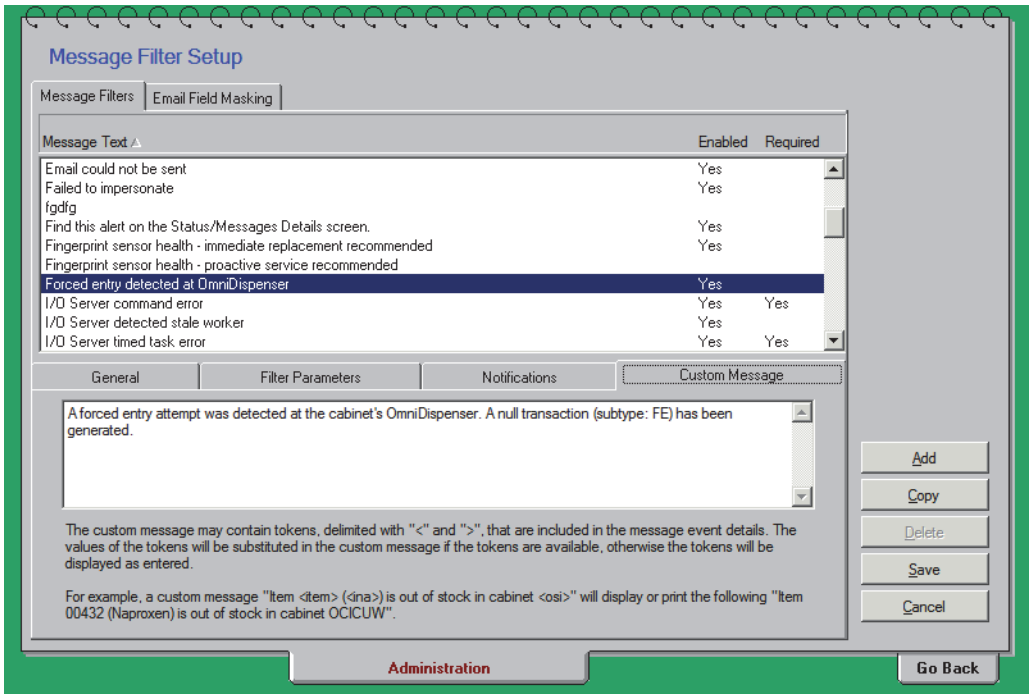


Figure 3-26. Custom Message Sub-Tab

10. Click **Save**.
11. Click **Go Back** to return to the original window.

Implementation

Overview

This chapter provides the general steps necessary to implement OmniDispenser module (ODM) at an existing pharmacy or mixed-use account. For additional implementation information, see the applicable technical manual or contact an Omnicell Project Manager.

The needs and existing setup of each facility will determine the actual implementation requirements and order in which they are performed. Implementation requirements include:

- Adjusting/installing rails, as needed
- Installing, labeling, an loading the dispensers
- Configuring the cabinet software
- Assigning items
- Enabling restock door access for the appropriate users

A Phillips #2 screw driver is required for implementing the hardware. Refer to "Field Service Instructions" on page 5-1 for other required tools and kits.

Configuring Rails

Rails A, C, and D are fixed and always present. Optional rails B and E may require installation or repositioning.

Note: The required rail configuration should be determined during the pre-implementation process, prior to ordering the OmniDispenser module and components.

Rails are removed and/or repositioned with the cabinet powered down. If reconfiguring an ODM in an auxiliary cabinet, both the main Color Touch and aux cabinet must be powered down. When installation is complete and the cabinet (main and aux, if applicable) is powered on, the software automatically detects the rail configuration.

Install a Rail

1. Power down the main Color Touch cabinet. If reconfiguring an ODM in an auxiliary cabinet, power down both the main and aux cabinet.
2. Remove the rear rail connector cover plate.

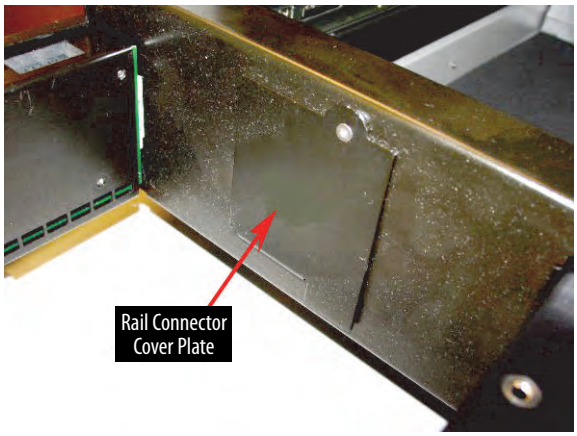


Figure 4-1. Removing the Rail Connector Cover Plate

3. Connect the rail back to the rear rail connector, then push the rail front down and into place.

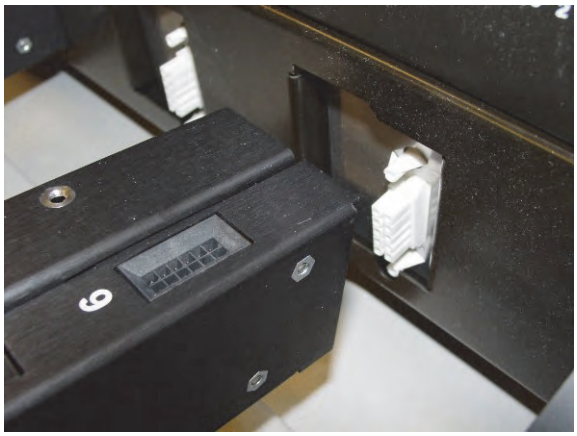


Figure 4-2. Connecting Rail Back to Connector

4. Hand-tighten the front thumb-screw.

5. Complete any additional rail configurations, then power-up the cabinet. If reconfiguring an ODM in an auxiliary cabinet, power up both the main and aux cabinets.

Figure 4-3. Tightening the Mounting Screw

Remove a Rail

1. Power down the main Color Touch cabinet. If reconfiguring an ODM in an auxiliary cabinet, power down both the main and aux cabinet.
2. Remove any dispensers installed on the rail.
3. Loosen the front thumb-screw.
4. Pull the rail front up, away from the rail frame, then pull the rail back out of the rear connector.
5. Install the rear rail connector cover plate.
6. Complete any further rail configurations, then power-up the cabinet. If reconfiguring an ODM in an auxiliary cabinet, power up both the main and aux cabinet.

Adjusting Dispensers

Caution: Failure to properly adjust the ATC/1ML/2ML slide can cause misdispenses. Carefully follow the adjustment instructions provided in this section, based on the applicable cassette type.

1. Verify the type of cassette to be used in the ATC/1ML/2ML dispenser.
2. Check the setting at the base of the dispenser to see if it matches the cassette.

3. If the setting does not match the cassette to be used, do the following steps:

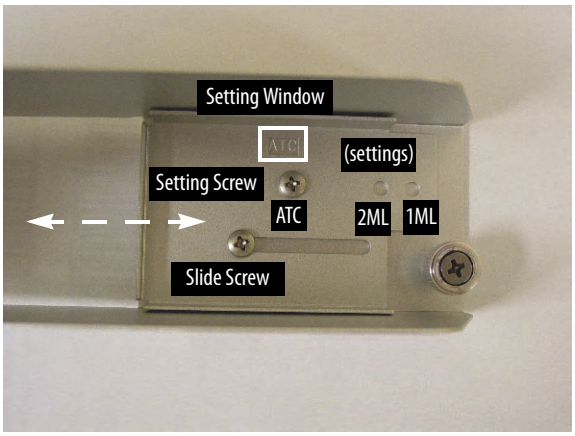


Figure 4-4. Setting layout at base of dispenser

a. Use a Phillips screwdriver to remove the setting screw, then loosen the slide screw at the base of the dispenser.

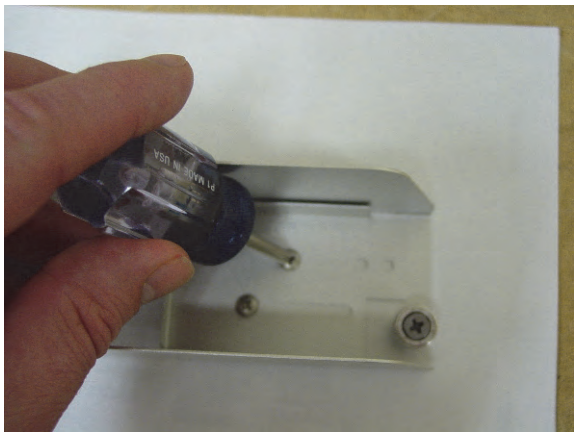


Figure 4-5. Removing the setting screw

b. Move the slide until the proper setting [ATC, 1ML, 2ML] can be seen through the window.

Figure 4-6. Moving the slide

c. Insert the setting screw, then tighten both screws.

Note: The pictures below are only to demonstrate how a 1 ML and a 2 ML cassette fit into the adjustable dispenser. Normally, dispensers are installed into the OmniDispenser, then the cassettes are loaded with meds before they are put into the dispenser (as per the following sections).

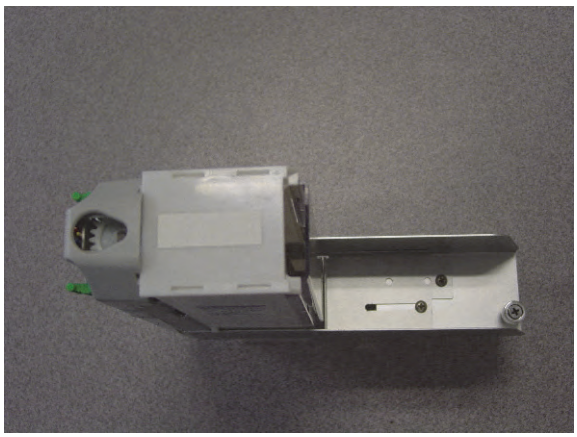


Figure 4-7. Top view of 1 ML cassette in dispenser

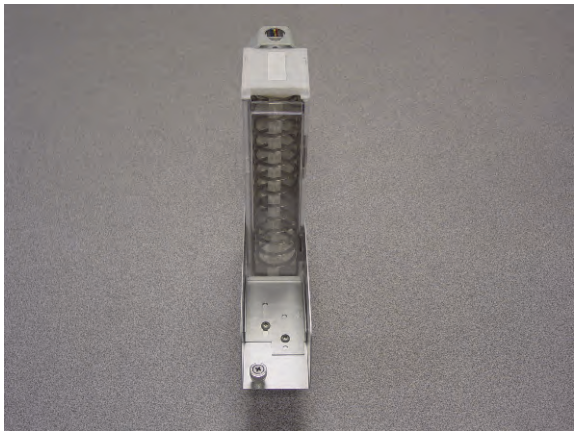


Figure 4-8. Back view of 2 ML cassette in dispenser

Installing Dispensers

Important: Any portion of the implementation that involves handling of and/or access to controlled medications must be overseen or performed by authorized pharmacy staff.

Note: The required dispenser configuration should be determined during the pre-implementation process, prior to ordering the OmniDispenser module and components.

1. Locate the rail (A-E) and rail position (1-9) assigned to the dispenser.
2. Insert the dispenser into the desired connector on the rail, pressing firmly on top of the dispenser to ensure a secure fit.

3. Make sure the dispenser is securely connected and level before tightening the mounting screw.
4. Hand-tighten the mounting screw or use a #2 Phillips screw driver (provided in kit) to secure the dispenser.

Figure 4-9. Installing Dispensers

Labeling Dispensers

There is no official process for labeling the individual dispensers and/or cassettes. It is recommended that the labels have the generic name, trade name, and strength of each medication.

Use the OmniBin Label function in OmniCenter to print the labels. It can access the database with the drug descriptions. Some sites may prefer white labels over the clear labels that come with the cabinet. Suggested label types include Avery address labels for cassette dispensers and Avery file folder labels for syringe dispensers.

Loading Dispensers

Oral Solids

Select a Cassette

Determine the correct cassette for a medication by referring to the facility's Master Drug List. Prior to implementation, a master drug list is typically developed by the facility, with the assistance of the Omnicell Project Manager. The master drug list is based on the medications traditionally used by the floors/stations with installed cabinets or is based on the master list for the narcotics vault.

If the necessary information is not available in the Master Drug List, refer to "Appendix B: Cassette Sizing Tool" on page B-1. The following subsection can also help with dispenser/cassette selection.

Package Length and Width When the oral solid package is rectangular in shape, the longer dimension is used as the package width and the shorter dimension is used as the package length.

The length and width of the medication package determines the insert type used in the cassette, while the height determines the coil type.

The position, shape, and height of the blister (if present) is critical in determining which cassette should be used in the dispenser to successfully dispense the drug package.

The following graphics, tables and examples illustrate the criteria used for the selection of a cassette for an oral solid.

Selection	Criteria
Insert Type	Length & Width of medication package
Coil Type	Height of medication package
Cassette Type	Position, shape, size of blister

Table 4-1. Selection Criteria

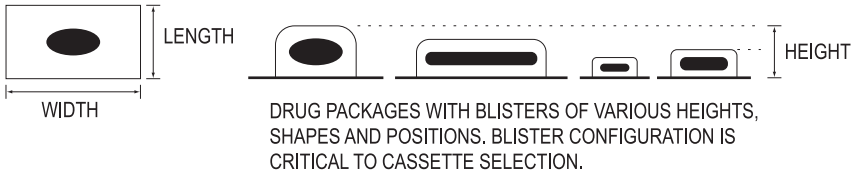


Figure 4-10. Medication Packages

Insert Type	Cassette #s	Max. Width	Max. Length
Small ribbed	3, 4, 7	1.10	0.66
Tylox ribbed	8, 12	1.17	0.80
Roxane ribbed	9, 11, 13	1.17	0.96
Large Flat	1, 2, 6, 10	1.52	0.86
U-Shape, Non-removable	5	1.52	1.28

Table 4-2. Cassette Insert Types

Cassette #s	Height (in)
5	0.132
1, 3, 9, 12	0.148
6, 7	0.231
2, 4, 11	0.231
8, 10, 13	0.311

Table 4-3. Cassette Coil Type (height = distance between rings)

1. Determine the package dimensions (width, length, and height).
2. Use to identify those cassettes with an insert that can accommodate the package width and length.
3. Use to identify those cassettes with a coil that can accommodate the package height.
4. Cross-reference the results of steps 2 and 3 to select a cassette type that meets both the insert and coil requirements.

Example The following example uses a drug package measuring 1.35" W x 0.84" L x 0.28" H.

1. Based on Chart 1, cassettes 1, 2, 6, or 10 can accommodate the length and width.

2. Based on Chart 2, cassettes 8, 10 and 13 have coils that can accommodate the package height.
3. Based on results from steps 1 and 2, cassette 10 is most appropriate for this medication.

Loading the Cassette

1. Cut the medication packaging into individual unit dose packages which are all the same size. Trim the packages to avoid excess material around the edges.
2. Open the cassette and lay it on its side.
3. For full loading:
   a. Rotate the coil as needed to have a full loading space at the top, then load a package blister side up (unless otherwise specified), oriented to the longest dimension.
   b. Rotate the coil clockwise until the tip at the bottom is in the 8:00 position.
   c. Continue loading from the bottom up between each set of coils so that they are oriented with the longest dimension.
4. For partial loading:
   a. Rotate the coil so that the tip at the bottom is in the 8:00 position.
   b. Load as needed from the bottom up between each set of coils so that they are oriented blister side up to the longest dimension.

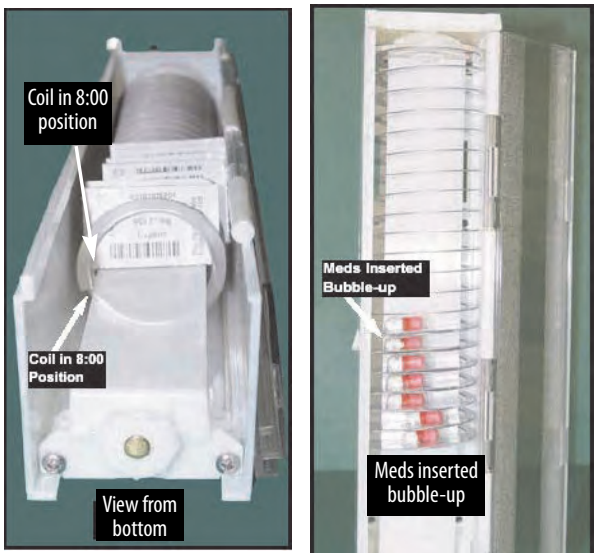


Figure 4-11. Orienting the Coil and Loading the Cassette

Note: Loading is done from the bottom up because the weight of the med package will affect coil spacing. Having the bottom coil tip at the 8:00 position secures the bottom dose while handling the cassette.

5. Close the cassette door, checking to ensure that none of the packaging is dragging against the door.

6. Insert the cassette into the dispenser, ensuring the holding clamps at the top of the cassette are latched.

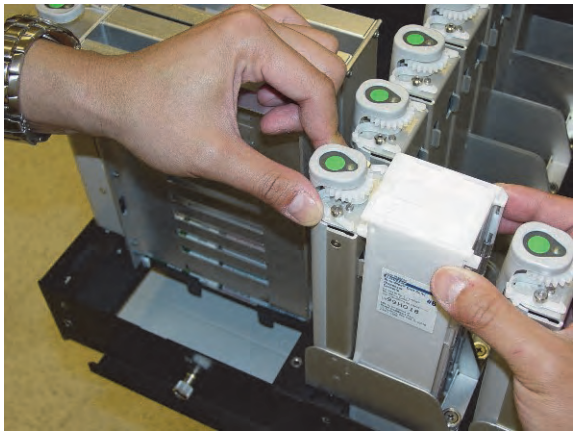


Figure 4-12. Inserting the Cassette into the Dispenser

Syringes

Note: OmniDispenser syringe dispensers are designed only for slim-pak syringes. Carpujects must be in slim-pak containers prior to being loaded into the dispenser.

1. Align the syringe with the top opening and gently roll it into the dispenser, ensuring that it lies flat.

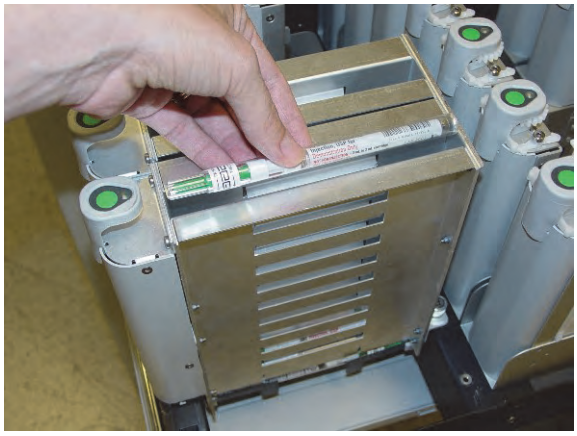


Figure 4-13. Filling the Syringe Dispenser

Note: Syringe dispensers hold a quantity of 22 slim-pak syringes. Do not overfill.

Caution: Do not allow any syringes to stick out above the top of the dispenser.

2. Repeat step 1 until the dispenser is filled.

Note: The syringe dispenser does not need to be removed from the OmniDispenser module to be restocked.

Vials and Ampules

Selecting a Vial/Ampule Cassette or Dispenser

Dispenser /cassette selection for vials and ampules is dependent upon packaging:

- 1 ml and 2 ml vials go into 1-2 ml cassettes; holds 18 vials
- 1 ml and 2 ml ampules go into 1-2 ml cassettes; holds 24 ampules
- 5 ml vials and ampules go directly into vial or ampule dispensers; holds 10 vials or ampules

Loading a Vial/Ampule Cassette

1. Remove the cassette from the dispenser, then open the cassette and lay it on its side.
2. Orient the coil so that the end is in the 6 o'clock position underneath the divider.
3. Starting from the bottom of the coil, load the first vial or ampule in the lowest opening between the side of the cassette and the insert. Load the next vial or ampule in the next opening on the opposite side of the insert.
4. Repeat step three until the cassette is filled, then close the cassette door.
5. Insert the cassette into the dispenser, ensuring the holding clamps at the top of the cassette are latched.

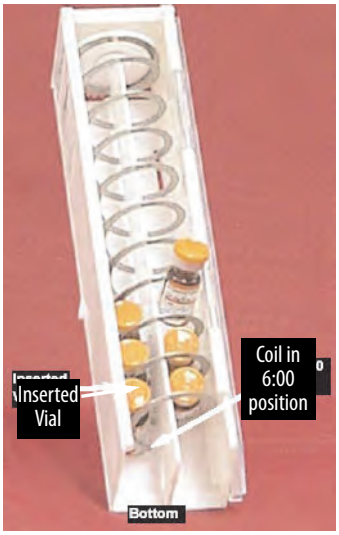


Figure 4-14. Loading a Vial/Ampule Cassette

Loading a Vial/Ampule Dispenser

The #14-8033 dispenser kit contains the 5 ml vial dispenser (#15-8034) and a ruler-like loading tool (#53-8156).

Figure 4-15. 5 ml vial dispenser and loading tool

1. Insert the loading tool flush down the side of the dispenser shaft.

Figure 4-16. 5 ml vial dispenser and loading tool

2. Align the (tall/skinny style) vials or ampules with the top facing the indented end of the shaft.

Figure 4-17. 5 ml vial dispenser and loading tool.

3. Gently roll up to 10 5ml vials into the dispenser, ensuring that it lies flat.
4. Remove the loading tool.

Configuring Cabinet Software

Programing the OmniDispenser's Pharmacy Drawers

1. Log into the cabinet.
2. Press **Omni Config**.
3. Press **Program Pharmacy Drawers**.
4. Select the applicable cabinet and zone from the list.

5. Follow the prompts to program each module/drawer in the selected zone. When prompted to program an OmniDispenser module, press the dispense drawer button.

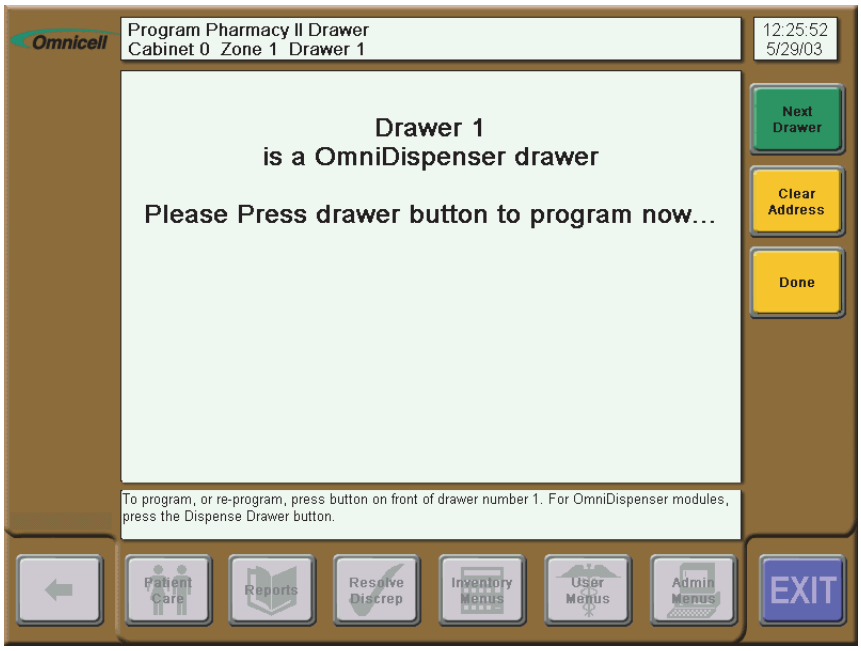


Figure 4-18. Programming the OmniDispenser

Cabinet Configuration Options

The following configuration options are directly applicable to OmniDispenser behavior. See the latest *Color Touch Configuration Options* manual (DocuShare keyword: Config Options) or applicable technical guide for additional configuration options.

Countback Always Configuration

Countback is not required for OmniDispenser items because users only have access to the medication dose(s) being dispensed. Countback may be required for inventory purposes. The **Enable Countback Always for Unit Dose Compartment** configuration option is set to disable by default. If the facility does not want to require countback for OmniDispenser items, **Countback Always** must be set to Disable, and Countback Req must be set to N (no) for each dispenser item.

[PHARMACY]

Config Name:	UDDCOUNTBACKALWAYS
Menu Name:	**Enable Countback Always for Unit Dose Compartment**
Description	Enables or disables the Countback Always feature for Unit Dose Compartments. This option affects all OmniDispensers and Sure-Med Unit Dose compartments
Values	Enabled; Disabled
Default	Disabled

Note: The Countback and Cycle Count Show Current Quantity configuration option setting will be ignored by OmniDispenser and Sure-Med Unit Dose modules. Both countback and cycle count always show current quantity for unit dose modules.

FIFO Configuration

The **Always Use FIFO for Multiple Bins** configuration option affects dispensing behavior for OmniDispenser and Sure-Med unit dose modules. This option affects the dispense order for multi-bin items assigned across one or more unit-dose dispensers and/or other pharmacy bins (non-unit-dose).

If enabled, the software issues the item from the same bin until empty, then moves on to the next bin and so on. If disabled, the software issues from all dispenser locations first, before dispensing from any drawer/non-dispenser locations. In this case, issues revert back to the dispenser(s) immediately upon restock, regardless of the bin level of the currently indicated bin.

[PHARMACY]

Config Name:	FIFOALWAYS
Menu Name:	**Always use FIFO for multiple bins or remove from unit dose dispensers first.**
Description	Uses FIFO or empties unit dose first for items in mixed UDD and non-UDD bins.
Values	Yes; No
Default	No

Time-out Configuration

Dispense Drawer Time-out

The **Transaction Middle Time-out** configuration setting determines the amount of time the user has to open dispense drawer during a transaction. If the user does not open the dispense drawer within the set amount of time, a warning sounds and the user is logged out. If any items were dispensed during the transaction, a null transaction is sent to the OmniCenter (null type DN: Dispense Drawer Not Opened).

This behavior does not apply during diagnostics functions.

[MISC]

Config Name:	Transaction Middle Time-out
Menu Name:	Transaction Middle Time-out (in seconds)
Description	The time-out limit for the remainder of a user function (such as transaction, restock, cycle count, etc.) goes into effect after the first key or button press. For OmniDispenser, this setting determines the amount of time the user has to open the dispense drawer during a transaction.
Values	0 to 86400 seconds
Default	45 seconds

Note: A zero (0) value denotes no time-out. Having no time-out is not recommended.

Restock Drawer Time-out The **Inventory Time-out** configuration setting determines the amount of time the user has to open restock door during an inventory function. If the user does not open the restock door within the set amount of time, a warning sounds and the user is logged out.

[MISC]

Config Name:	Inventory Time-Out
Menu Name:	Inventory Time-Out (in seconds)
Description	Sets time-out (in seconds) for Inventory functions. For OmniDispenser, this setting determines the amount of time the user has to open the restock door during a transaction.
Values	0 to 86400 seconds
Default	600 Seconds

Note: A zero (0) value denotes no time-out. Having no time-out is not recommended.

Assigning Items

This section assumes that items are being assigned to unassigned dispensers. If re-using dispensers previously assigned, refer to "Modify Bin" on page 3-15 for the Reassign and Assign Additional functions.

Item assignment is performed at the cabinet level, per usual functionality. This guide assumes that the OmniCenter Items database is up-to-date and contains the items to be assigned to the OmniDispenser module.

OmniDispenser items can be assigned once the module has been programmed (see above), the items have been sent from the OmniCenter to the cabinet, and the dispensers are installed on the rails.

To assign an item to an empty dispenser:

1. Log into the cabinet, then press **Inventory Menus**.
2. Press **Modify Bin.**
3. Press the restock door button and open the door.
4. Press the button on the dispenser.
5. Press the **Assign Item** button.

6. Proceed with bin assignment as usual.

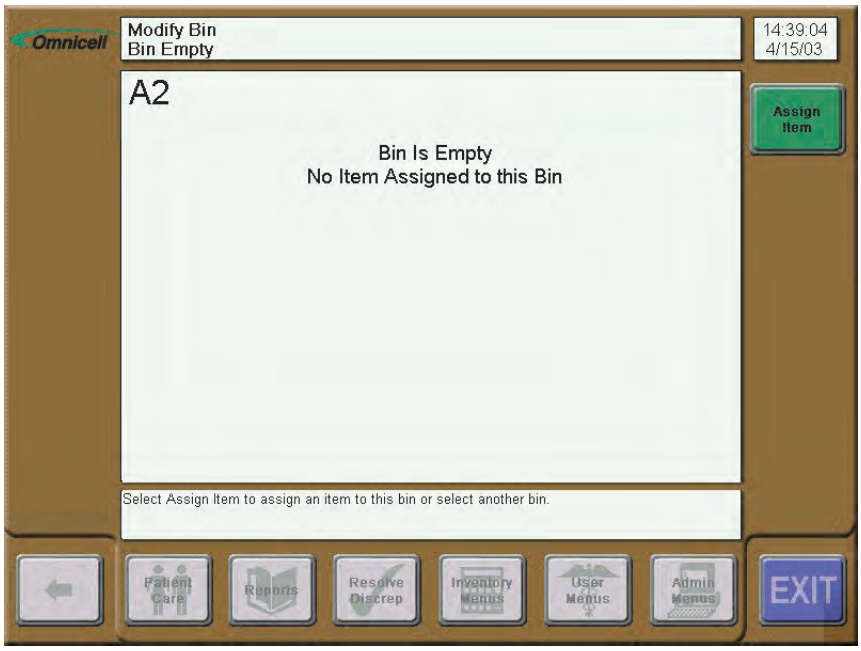


Figure 4-19. Assign Item window

Enabling User Access to Restock Door

At the OmniCenter, the facility can enable or disable individual user access to the OmniDispenser restock door. Once enabled, the user can access the restock door for all associated OmniDispenser modules and Sure-Med Unit Dose compartments.

For Inventory and Patient Care Functions, the user must be UD Access/Pharmacy-enabled and have the correct control level access for all items contained in the OmniDispenser module. If the user does not have access to any item contained in the module, the restock door will not open, and a message displays.

For Inventory Menus functions, any UD Access/Pharmacy-enabled user can access the restock compartment. However, the software only allows the user to select items / dispensers for which they have proper control level access.

To enable/disable restock door access for a user:

1. Log into the OmniCenter.
2. Click on the **Database** tab, then select the **Users** table.
3. Select the applicable user record, then click **Modify**.
4. Click the **OmniSupplier** radio button.
5. Select the **UD Access** field to enable access (or) deselect the field to disable access.

Note: The UD Access field appears grayed-out and can not be modified if the logged in user does not have the appropriate access privileges.

In order to alter the UD Access field for another user, the logged-in user must have server access level of 7, 8, 9 or C, and be a UD Access-enabled user.

6. Verify that the **Pharmacy** field is selected, and that the user has the correct control level access (DEA Schedule # fields) for all medications that are contained in the OmniDispenser.
7. Click **Save**.

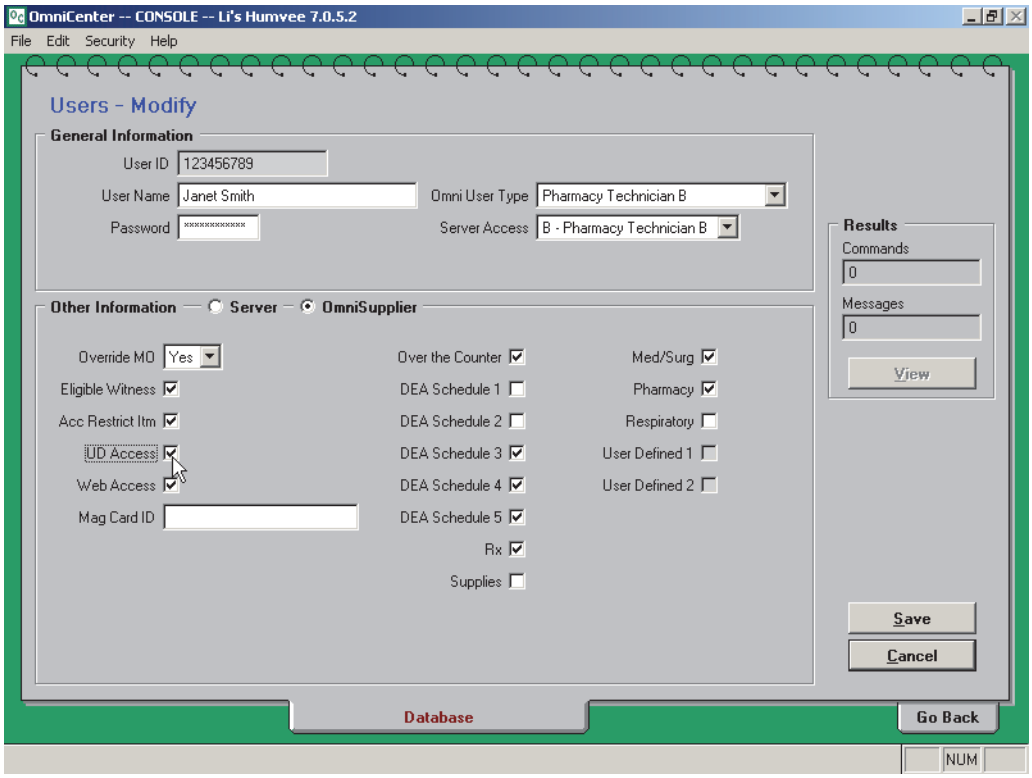


Figure 4-20. Enabling Restock Door Access

Field Service Instructions

Overview

This chapter provides service procedure instructions that can be performed at the customer facility by a qualified Omnicell representative. To determine which, if any, service procedure is necessary, refer to "Appendix C: Troubleshooting Guide" on page C-1.

The following OmniDispenser module (ODM) components can be replaced in the field:

- Rail assembly (rail frame)
- Rails B through E (rail dividers: fixed or optional)
- Restock door
- Dispense drawer and dispense drawer cable
- Top cross bar
- Rail cable
- Carrier controller board

A list of field-replaceable parts, with ordering descriptions and part numbers, is provided at the end of this chapter.

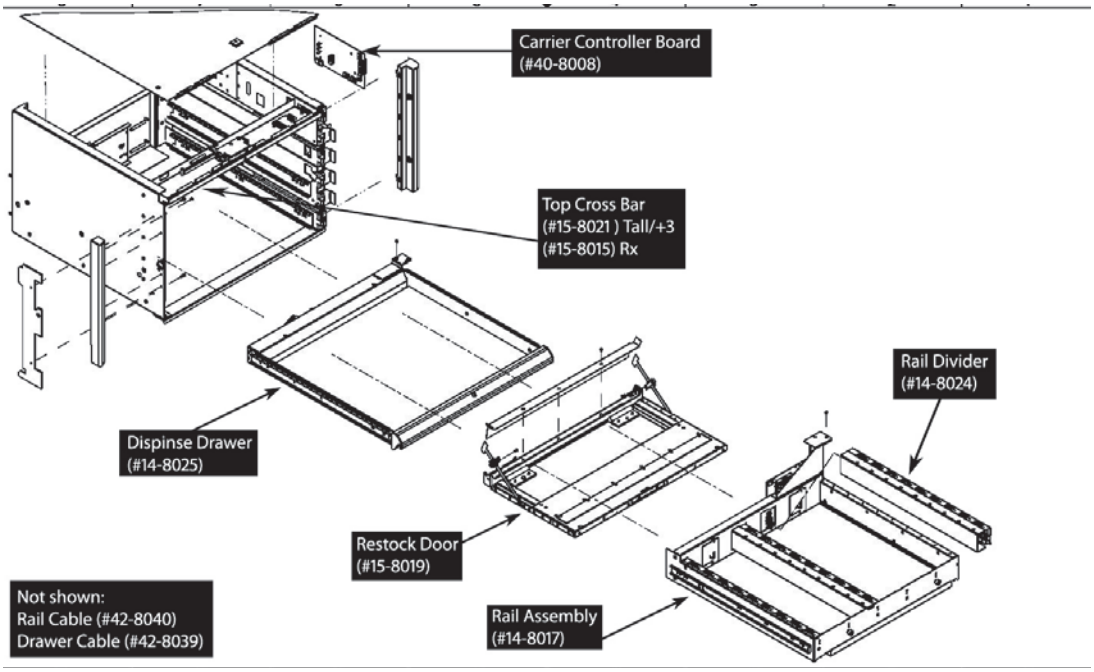


Figure 5-1. Required Parts

Tools Required

One or more of the following tools are required to perform each service function in this chapter:

- T8 Torx Driver
- T10 Torx Driver
- T15 Torx Driver
- Two 3/18" open-ended C-wrenches

Note: Rails are removed, installed and/or repositioned with the cabinet powered down. If servicing or reconfiguring an ODM in an auxiliary cabinet, both the main Color Touch and aux cabinet must be powered down. When installation is complete and the cabinet (main and aux, if applicable) is powered on, the software automatically detects the rail configuration.

Important: Any service procedure that grants access to controlled medications must be supervised by authorized pharmacy staff.

Replacing the Rail Assembly

The rail assembly consists of the rail frame (front, back and sides) and fixed rails A, C and D. If a problem occurs with a component of the rail assembly, and can not be resolved by swapping out a rail (B through E)3 or rail cable, the entire assembly is replaced (PN#14-8017).

Fixed rails C and D, and optional rails B and E can be replaced. If a problem occurs with rail A or other portion of the rail frame, the entire rail assembly must be replaced. In this event, any optional rails are removed and installed in the new rail assembly.

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

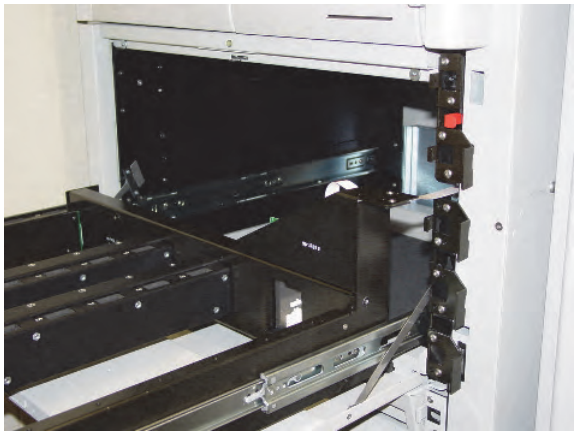


Figure 5-2. Extending the rail frame

Remove the Rail Assembly

1. Use a T-10 Torx driver to remove two 6-32 flat-head screws securing the rail cable bracket

Figure 5-3. Removing the rail cable bracket (6-32 flat-head screws)

2. Use a T-10 Torx driver to loosen the 6-32 button-head screw securing the rail cable bracket to the rail frame.
3. Remove the rail cable bracket and set aside.

Figure 5-4. Removing the rail cable bracket (6-32 button-head screws)

4. Disconnect the rail cable from P1 on the rail controller board.

Figure 5-5. Disconnecting the rail cable

5. Simultaneously push down on the right and left drawer slide release levers.
6. Hold the release levers down and pull the rail assembly out and set aside.

Figure 5-6. Removing the rail assembly

Install the New Rail Assembly

1. Align the new rail assembly with the drawer slides.

Figure 5-7. Inserting the rail assembly

2. Insert the rail assembly into the drawer slides until fully engaged
3. Connect the rail cable to P1 on the rail controller board.

Figure 5-8. Connecting the rail cable

4. Reinstall the rail cable bracket.
   a. Use a T-10 Torx driver to tighten the 6-32 button head screw that secures the rail cable bracket to the rail frame
   b. Use a T-10 Torx driver to install two 6-32 flat-head screws that secures the rail cable bracket.

Replacing/Adding/Removing Rails

Fixed rails C and D can be replaced, but must be present for proper operation. Optional rails B and E can be added, replaced or removed as needed. If a problem exists with fixed rail A, the entire rail assembly must be replaced. See "Replacing the Rail Assembly" on page 5-2.

Rails are removed, installed and/or repositioned with the cabinet powered down. If servicing or reconfiguring an ODM in an auxiliary cabinet, both the main Color Touch and aux cabinet must be powered down. When installation is complete and the cabinet (main and aux, if applicable) is powered on, the software automatically detects the rail configuration.

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

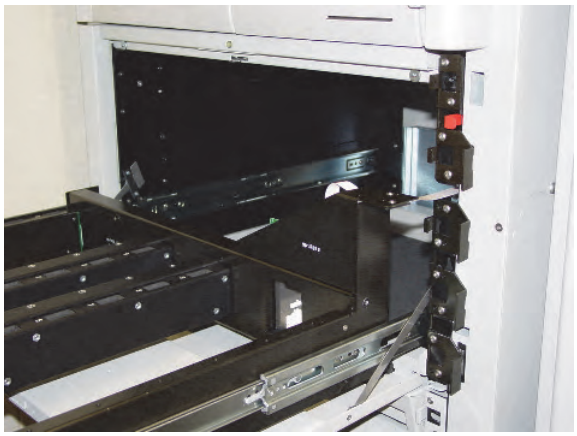


Figure 5-9. Extending the rail frame

Remove Rails (B-E)

1. Fixed rail: Use a T-15 Torx driver to remove the 8-32 button-head screw securing the fixed rail to the rail frame.

   Optional rail: Loosen the thumb-screw.

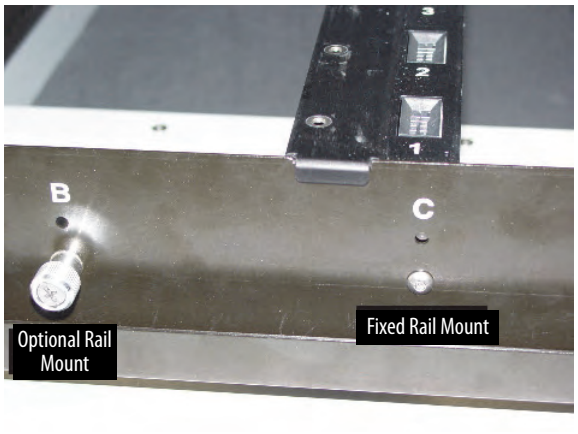


Figure 5-10. Removing a fixed or optional rail

2. Gently lift the rail front, then pull the rail free from the rear rail connector.

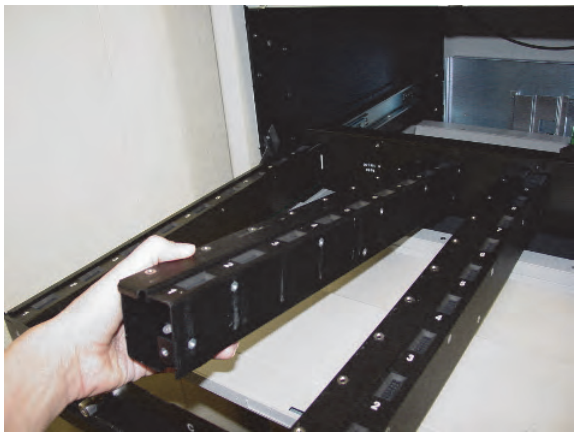


Figure 5-11. Removing a fixed rail

Note: To permanently remove the optional rails, use a T-8 Torx driver to secure the rail connector cover over the empty slot with a 4-40 flat-head screw.

Replace Rails (B-E)

1. Insert the new rail.
2. Connect the rail back to the rear rail connector.
3. Push the rail front down and into place.

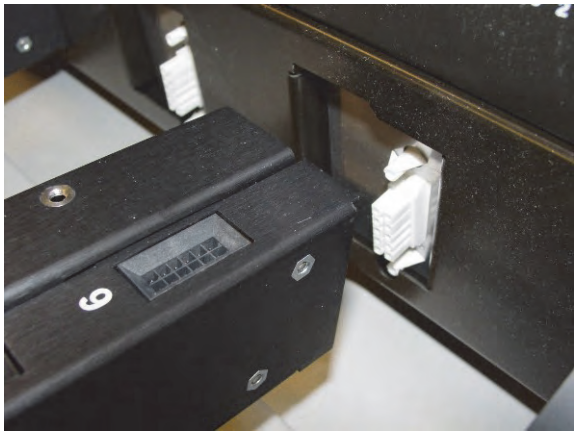


Figure 5-12. Connecting rail back to connector

4. Fixed rail: Use the T-15 Torx driver to install the 8-32 button-head screw to secure the fixed rail to the rail frame.

   Optional rail: Hand-tighten the thumb-screw.

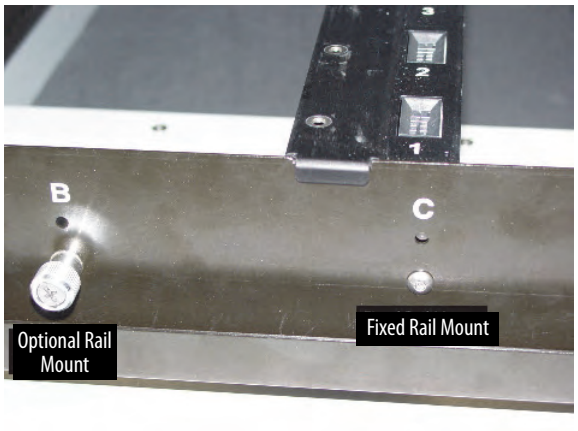


Figure 5-13. Tightening the mounting screws

5. Complete any additional rail configurations, then power-up the cabinet. If reconfiguring an ODM in an auxiliary cabinet, power-up both the main and aux cabinets.

Add Optional Rails (B and E)

Optional rails can be installed into unused rail slots.

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

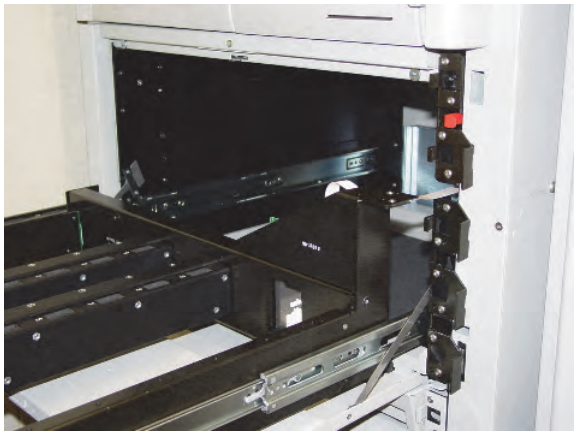


Figure 5-14. Extending the rail frame

5. Use the T8 Torx driver to remove the 4-40 flat-head screw securing the rail connector cover plate. Save the cover plate and screw for later reconfiguration.

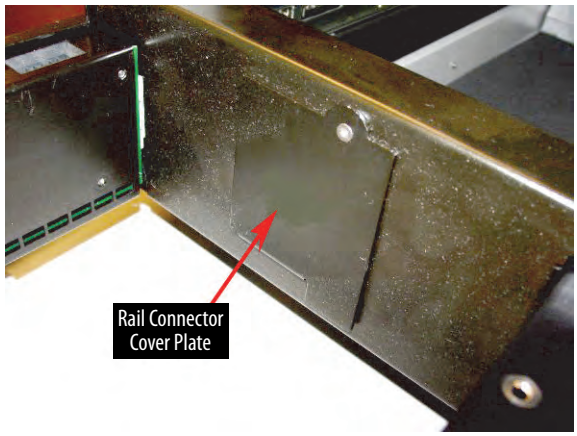


Figure 5-15. Removing the rail connector cover plate

6. Refer to "Replace Rails (B-E)" on page 5-8 for installing the optional rails.

Replacing the Restock Door

If a problem occurs with a component of the restock door, such as the hinges, braces (trunnion bars) or latch, the entire door assembly is replaced (PN#15-8019).

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

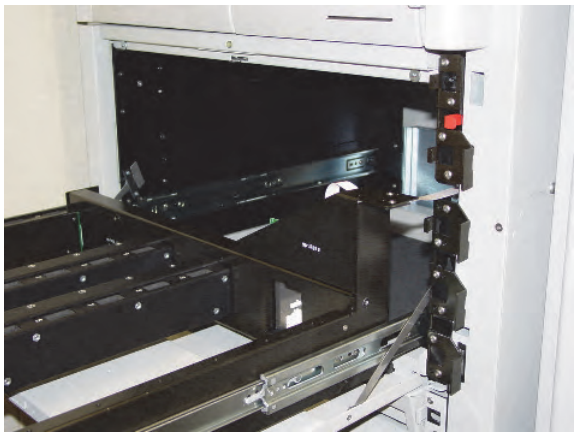


Figure 5-16. Extending the rail frame

Remove the Restock Door

1. Remove the rail assembly. Refer to "Remove the Rail Assembly" on page 5-3.
2. Use a T-10 Torx driver to remove two 6-32 flat-head screws securing the trunnion bars (one screw per bar) to the module interior.

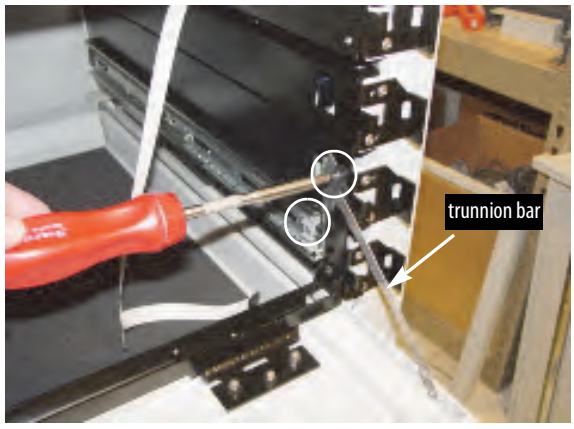


Figure 5-17. Detaching the trunnion bars

3. Use a T-10 Torx driver to remove three 6-32 flat-head screws securing the fix inhibitor bracket.

Figure 5-18. Removing the fix inhibitor bracket

4. Remove the fix inhibitor bracket and set aside.
5. Use a T-15 Torx driver to remove six 8-32 flat-head screws securing the door hinges to the bottom crossbar (three screws per hinge).

Figure 5-19. Detaching the door hinges

6. Carefully remove the restock door, taking care not to bend the trunnion bars.

Install the New Restock Door

1. Position the new restock door—aligning the two door hinges with the holes in the bottom crossbar.
2. Use a T-15 Torx driver to install six 8-32 flat-head screws to secure the door hinges to the bottom crossbar (three screws per hinge).

Figure 5-20. Attaching the door hinges

3. Use a T-10 Torx driver to install two 6-32 flat-head screws to secure the trunnion bars to the module interior (one screw per trunnion bar).

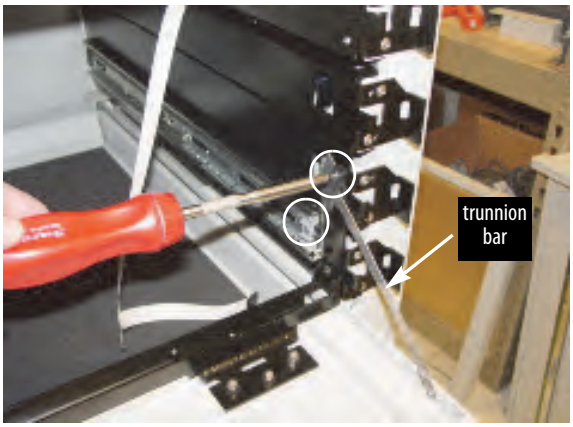


Figure 5-21. Attaching the trunnion bars

4. Align the fix inhibitor bracket over the bottom crossbar.

5. Use a T-10 Torx driver to install three 6-32 flat-head screws to secure the fix inhibitor bracket.

Figure 5-22. Installing the fix inhibitor bracket

6. Install the rail assembly. Refer to "Install the New Rail Assembly" on page 5-5.

Replacing the Dispense Drawer

If a problem occurs with a component of the dispense drawer that cannot be resolved by replacing the drawer cable (such as bad LED or latch), the entire drawer is replaced (PN#14-8025).

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

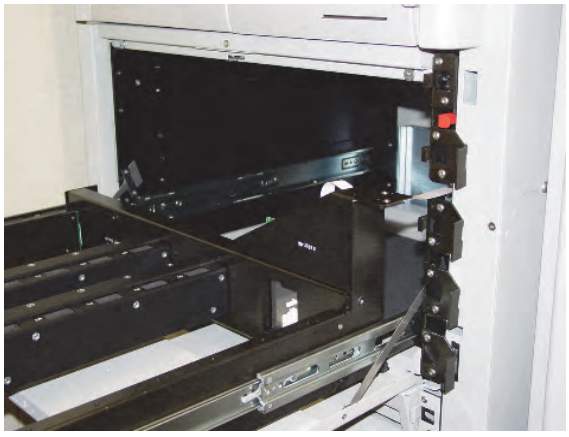


Figure 5-23. Extending the rail frame

Remove the Dispense Drawer

1. Remove the rail assembly. Refer to "Remove the Rail Assembly" on page 5-3.
2. Remove the restock door. Refer to "Remove the Restock Door" on page 5-10.

Figure 5-24. Removing the restock door

3. Pull the drawer manual override, and open the drawer until fully extended.
4. Use a T-10 Torx driver to remove two 6-32 flat-head screws securing the cable bracket to the drawer.

Figure 5-25. Removing the drawer cable bracket

5. Remove the cable bracket and set aside.

6. Disconnect the drawer cable from J1 on the drawer controller board.

Figure 5-26. Disconnecting the drawer cable

7. Simultaneously push down on the right and left drawer slide release levers.
8. Hold the release levers down and pull the dispense drawer out, then set it aside.

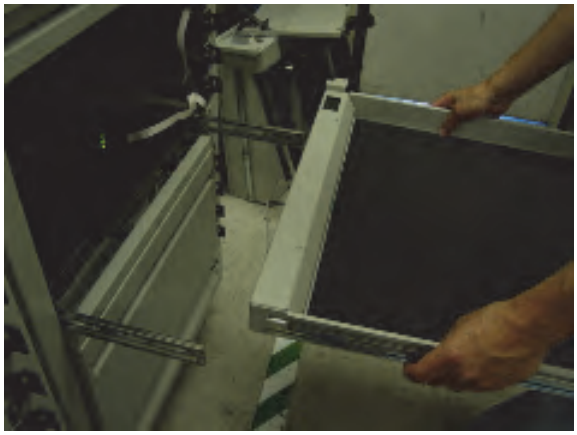


Figure 5-27. Removing the dispense drawer

Install the New Dispense Drawer

1. Align the new dispense drawer with the drawer slides.

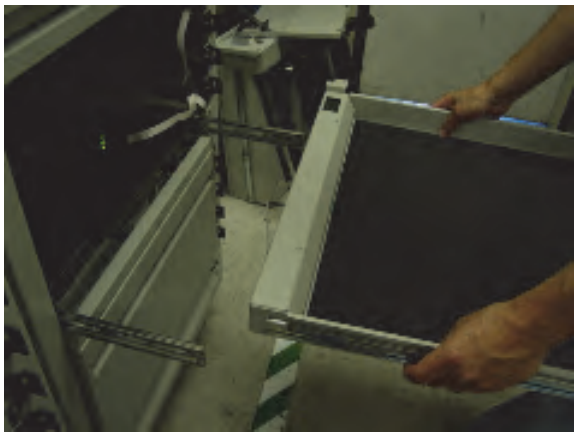


Figure 5-28. Installing the dispense drawer

2. Insert the dispense drawer into the drawer slides until fully engaged.
3. Connect the drawer cable to J1 on the drawer controller board.

Figure 5-29. Connecting the drawer cable

4. Use a T-10 Torx driver to install two 6-32 flat-head screws to secure the cable bracket to the drawer.

Figure 5-30. Installing the drawer cable bracket

5. Install the restock door. Refer to "Install the New Restock Door" on page 5-12.
6. Install the rail assembly. Refer to "Install the New Rail Assembly" on page 5-5.

Replacing the Dispense Drawer Cable

The dispense drawer cable connects the dispense drawer controller to the carrier controller. The cable can be replaced as needed (PN#42-8039).

Note: The dispense drawer cable (PN#42-8039) is unique, and cannot be substituted with a pharmacy II drawer cable or OmniDispenser rail cable.

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.

4. Pull the rail frame out until fully extended.

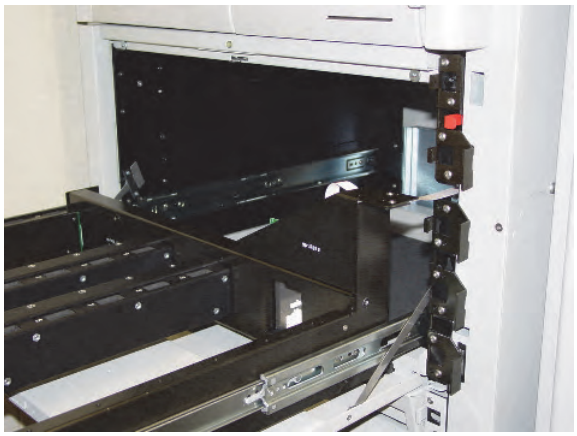


Figure 5-31. Extending the rail frame

Remove the Drawer Cable

1. Remove the rail assembly. Refer to "Remove the Rail Assembly" on page 5-3.
2. Remove the restock door. Refer to "Remove the Restock Door" on page 5-10.

Figure 5-32. Removing the restock door

3. Remove the dispense drawer. Refer to "Remove the Dispense Drawer" on page 5-14 (steps 3-8).

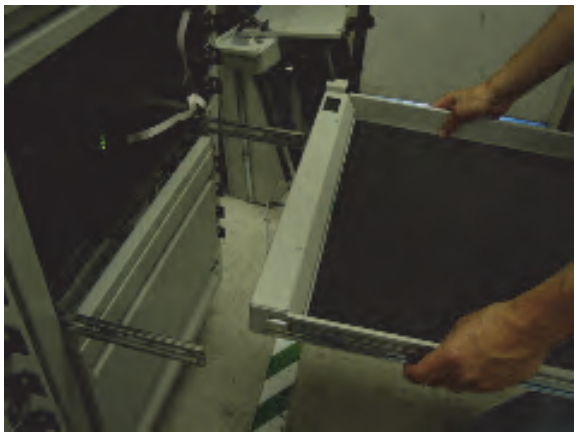


Figure 5-33. Removing the dispense drawer

4. Use a T-15 Torx driver to remove four 8-32 flat-head screws securing the bottom crossbar (two screws on each side).

Note: The two flat-head screws on the right (8-32 x 3/8) are longer than the two on the left (8-32 x 1/4).

Figure 5-34. Removing the bottom crossbar

5. Remove the bottom crossbar and set aside.

6. Use a T-8 Torx driver to remove four 4-40 flat-head screws securing carrier controller cover.

Figure 5-35. Removing the carrier controller cover

7. Remove the carrier controller cover and set aside.
8. Use a T-15 Torx driver to remove two 8-32 button-head screws securing the middle bayonet.

Figure 5-36. Removing the middle bayonet

9. Pull the bayonet away from the frame—just enough to access the rail cable routed behind it.

10. Unplug the rail cable from P1 on the carrier controller board.

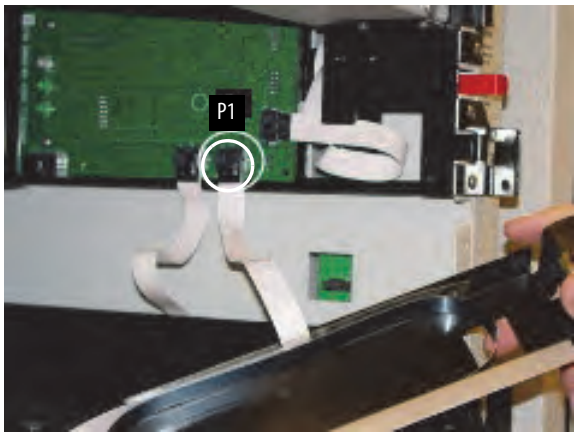


Figure 5-37. Disconnecting the rail cable

11. Set the middle bayonet and its rail cable aside.
12. Use a T-15 Torx driver to remove two 8-32 button-head screws securing the bottom bayonet.

Figure 5-38. Removing the bottom bayonet

13. Remove the bottom bayonet and set aside.

14. Use a T-15 Torx driver to remove two 8-32 button-head screws securing the drawer bayonet. The second screw (in area circled) is not visible in Figure 5-39.

Figure 5-39. Removing the drawer bayonet

15. Disconnect the dispense drawer cable from P2 on the carrier controller board.

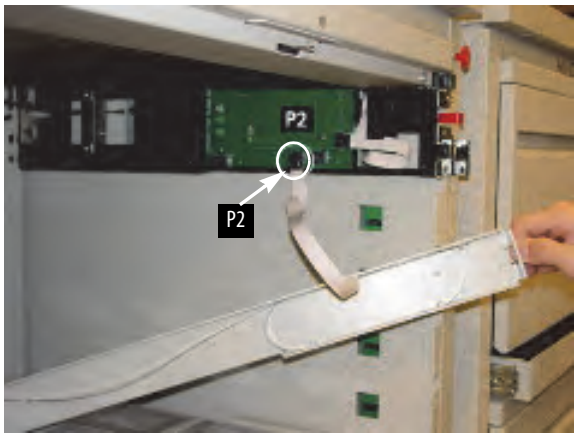


Figure 5-40. Disconnecting the dispense drawer cable

16. Remove the dispense drawer cable from the drawer bayonet and discard the cable.

Install the New Drawer Cable

1. Place the dispense drawer cable into the drawer bayonet.

2. Slide the plastic tab on the cable between the spring and outer wall of the bayonet.

Figure 5-41. Inserting the new dispense drawer cable into the drawer bayonet

3. Connect the dispense drawer cable to P2 on the carrier controller board.

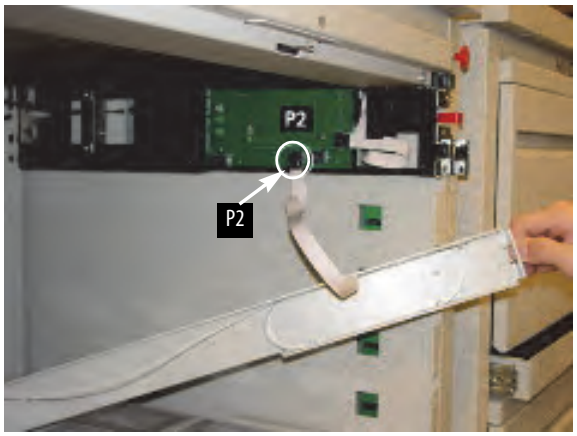


Figure 5-42. Connecting the dispense drawer cable to the carrier controller

4. Use a T-15 Torx driver to install two 8-32 button-head screws secure the drawer bayonet. The second screw (in circled area) is not visible in Figure 5-43.

5. Make sure the free cable end which will be plugged into the drawer is positioned above drawer bayonet.

Figure 5-43. Installing the drawer bayonet

6. Use a T-15 Torx driver to install two 8-32 button-head screws to secure the bottom bayonet.
7. Make sure the drawer cable is behind the bayonet and is not pinched.

Figure 5-44. Installing the bottom bayonet

8. Hold the middle bayonet and connect the rail cable to P1 on the carrier controller board.

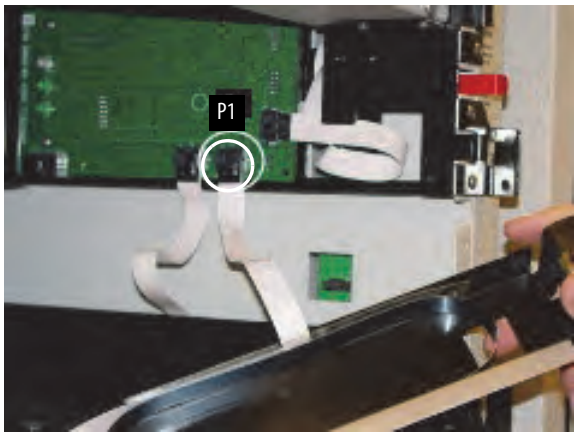


Figure 5-45. Connect the rail cable

9. Use a T-8 Torx driver to install two 8-32 button-head screws to secure the middle bayonet.
10. Make sure the free cable end which will be plugged into the rail frame is positioned above the drawer bayonet.
11. Tuck excess cable behind the bayonets.

Figure 5-46. Installing the middle bayonet

12. Use a T-15 Torx driver to install four 4-40 flat-head screws securing carrier controller cover.

Figure 5-47. Installing the carrier controller cover

13. Use a T-15 Torx driver to install four 8-32 flat-head screws securing the bottom crossbar (two screws on each side). Use the two longer screws on the right side.

Note: The two flat-head screws used on the right side (8-32 x 3/8) are longer than the two used on the left side (8-32 x 1/4).

Figure 5-48. Installing the bottom crossbar

Install the Dispense Drawer

1. Align the new dispense drawer with the drawer slides.

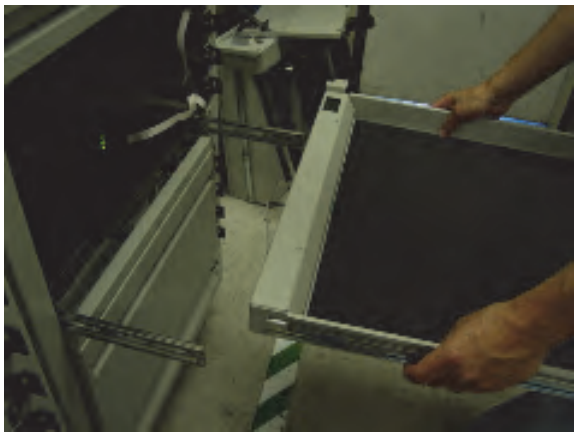


Figure 5-49. Installing the dispense drawer

2. Insert the dispense drawer into the drawer slides until fully engaged.
3. Connect the drawer cable to J1 on the drawer controller board.

Figure 5-50. Connecting the drawer cable

4. Use a T-10 Torx driver to install two 6-32 flat-head screws to secure the cable bracket to the drawer.

Figure 5-51. Installing the drawer cable bracket

5. Install the restock door. Refer to "Install the New Restock Door" on page 5-12.
6. Install the rail assembly. Refer to "Install the New Rail Assembly" on page 5-5.

Replacing the Top Crossbar

If a door release cable (manual override) needs to be adjusted, refer to "Install the New Cross Bar" on page 5-32(steps 7-9).

If a problem occurs with a component of the top crossbar (such as bad LED or latch), the entire crossbar is replaced (PN#14-8025).

Note: The instructions in this section assume that the entire crossbar is being replaced. In some cases, it may be more efficient to order a new top crossbar, and use parts from it to repair the existing top crossbar. This is at the discretion of the Omnicell representative.

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.

Remove the Top Cross Bar

1. Use a T-15 Torx driver to remove two 8-32 flat-head screws securing the right side of the top crossbar to the carrier.

Note: The picture in Figure 5-52 shows the carrier controller cover already removed. The cover should be on during normal operation.

Figure 5-52. Removing the top crossbar: two 8-32 flat-head screws

2. Use a T-15 Torx driver to remove two 8-32 flat-head screws securing the left side of the top crossbar to the carrier.

Figure 5-53. Removing the top crossbar: two 8-32 flat-head screws

3. Remove the top crossbar by sliding forward, until free from the carrier.

Note: If the crossbar is difficult to remove, try tapping the back with a rubber mallet.

4. Disconnect the 14-pin ribbon cable from TB1 on the transition board.

5. Remove the ribbon cable by feeding backward through the cable slot in the top crossbar.

Figure 5-54. Disconnecting the ribbon cable

6. Use a T-15 Torx driver to remove the 8-32 flat-head screw securing the door release cable to the top crossbar.
7. Remove the door spring and set it aside.

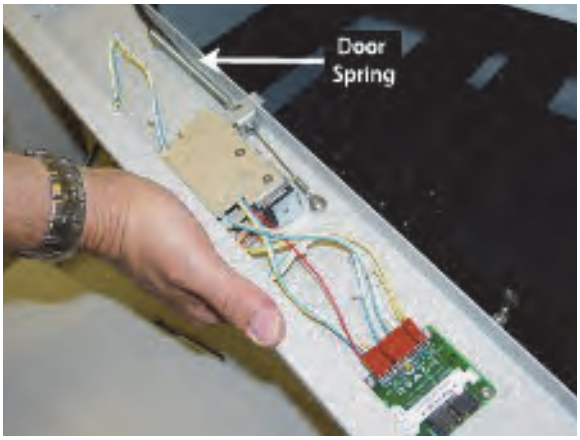


Figure 5-55. Removing the door release cable

8. Use a T-10 Torx driver to remove the center 6-32 flat-head screw securing the latch cover bracket.

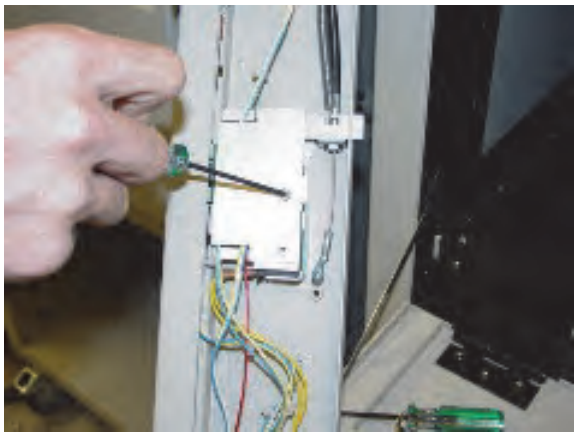


Figure 5-56. Loosening the latch cover bracket

9. Rotate the latch cover bracket clockwise to access the door release bracket.
10. Use a T-10 Torx driver to remove the 6-32 truss-head screw securing the door release bracket.

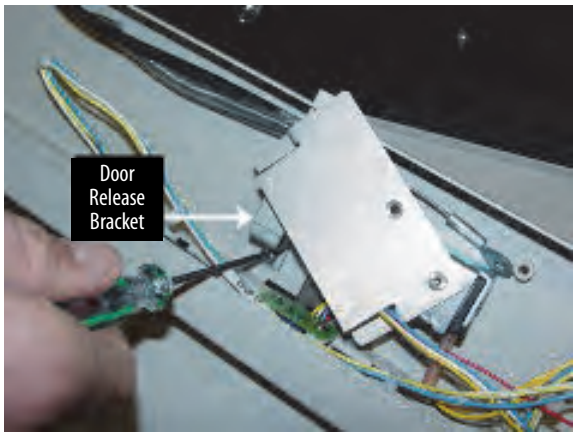


Figure 5-57. Removing the door release bracket: 6-32 truss head screw

11. Lift the door release bracket away from the top crossbar.

12. Use two 3/8 C-wrenches to loosen the two 3/8 hex nuts securing the door release cable to the bracket. Use one wrench to secure the bottom nut while using the other wrench to loosen the top nut.

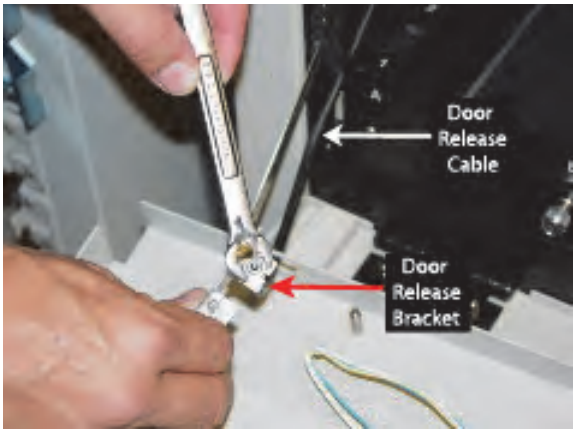


Figure 5-58. Removing the door release bracket: two 3/8 hex nuts

13. Remove the door release bracket and set aside.

Install the New Cross Bar

1. Insert the notched tab on the door release bracket between the two hex nuts on the door release cable, as shown.

Figure 5-59. Inserting the door release bracket tab between the hex nuts

2. Use two 3/8 C-wrenches to tighten the two 3/8 hex nuts securing the door release cable to the bracket. Use one wrench to secure the bottom nut while using the other wrench tighten the top nut.

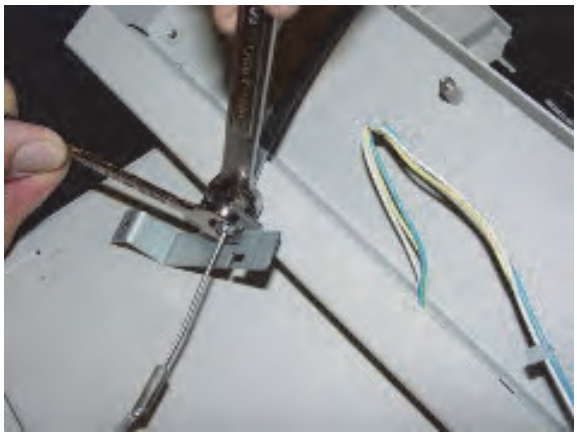


Figure 5-60. Securing the door release cable

3. Place the door release bracket in its original position.
4. Use a T-10 Torx driver to install the 6-32 truss-head screw to secure the bracket to the top crossbar.

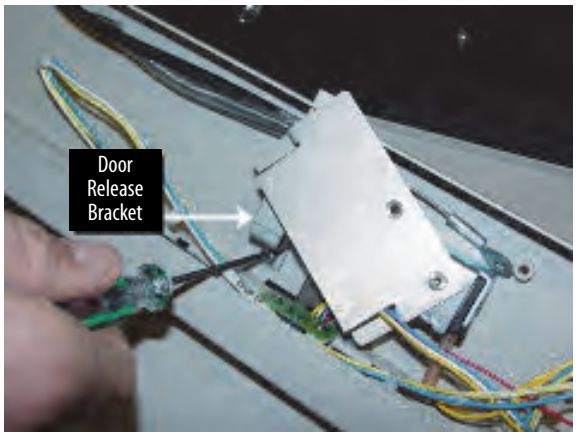


Figure 5-61. Installing the door release bracket

5. Install the door spring.
   a. Align the spring along the rear of the top crossbar.
   b. Hook one end over the spring post.
   c. Hook the other end over the notch in the door release bracket.

6. Use a T-10 Torx driver to install the 8-32 flat-head screw to secure the door release cable to the top crossbar.

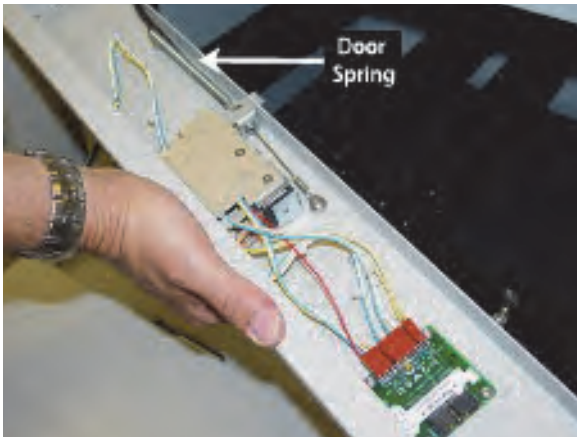


Figure 5-62. Secure the door release cable to the top crossbar

7. Use a 3/8 C-wrench to adjust the position of the door release bracket by tightening or loosening the nut securing the door release cable. Leave a 3/8"-1/4" gap between the bracket and the spring side of the rear opening.
8. Pull the manual override a few times to test the door release.
9. Adjust door release bracket as needed.
10. Insert the 14-pin ribbon cable through the cable slot in the top crossbar.
11. Connect the 14-pin ribbon cable to TB1 on the transition board. Partially insert the top crossbar to gain enough slack to plug the cable in. If needed, use needle-nose pliers to gently guide the cable connector into place.

Figure 5-63. Connecting the ribbon cable

12. Slide the top crossbar into place between the crossbar brackets and the top of the module.

Figure 5-64. Sliding the top crossbar into position

13. Use a T-15 Torx driver to install two 8-32 flat-head screws to secure the right side of the top crossbar to the carrier.

Figure 5-65. Installing the top crossbar: two 8-32 flat-head screws

14. Use a T-15 Torx driver to install two 8-32 flat-head screws to secure the left side of the top crossbar to the carrier.

Figure 5-66. Installing the top crossbar: two 8-32 flat-head screws

Replacing the Rail Cable

The rail cable can be replaced as needed (PN#42-8040).

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.
3. Pull the manual override lever and open the restock door.
4. Pull the rail frame out until fully extended.

Figure 5-67. Extending the rail frame

Remove the Rail Cable

1. Use a T-10 Torx driver to remove two 6-32 flat-head screws securing the rail cable bracket.

Figure 5-68. Removing the rail cable bracket: two 6-32 flat-head screws

2. Use a T-10 Torx driver to loosen the 6-32 button-head screw securing the rail cable bracket to the rail frame.

Figure 5-69. Removing the rail cable bracket: 6-32 button-head screw

3. Remove the rail cable bracket and set aside.

4. Disconnect the rail cable from P1 on the rail controller board.

Figure 5-70. Disconnecting the rail cable from the rail controller board

5. Use a T-8 Torx driver to remove four 4-40 flat-head screws securing carrier controller cover.

Figure 5-71. Removing the carrier controller cover

6. Remove the carrier controller cover and set aside.
7. Use a T-15 Torx driver to remove two 8-32 button-head screws securing the middle bayonet.

8. Pull the bayonet away from the frame, just enough to access the rail cable routed behind it.

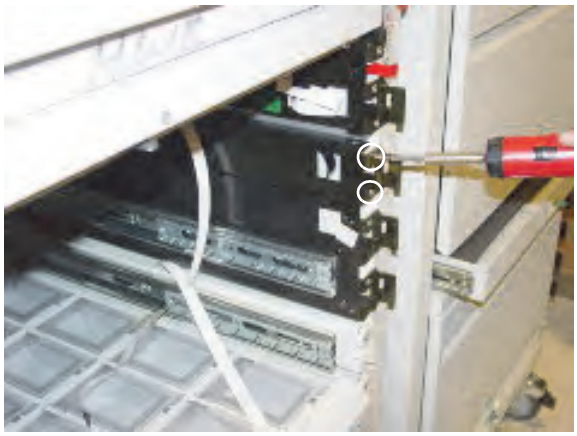


Figure 5-72. Removing the middle bayonet

9. Disconnect the rail cable from P1 on the carrier controller board.

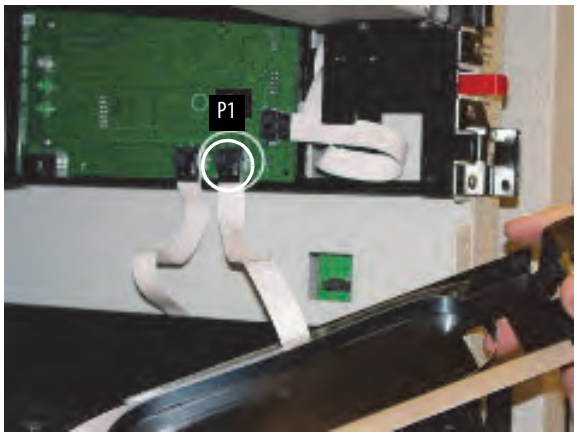


Figure 5-73. Disconnecting the rail cable from the carrier controller board

10. Remove the rail cable from the middle bayonet, and discard.

Install the New Rail Cable

1. Place the dispense drawer cable into the middle bayonet.
   a. Slide the plastic tab on the cable between the spring and outer wall of the bayonet.
   b. Connect the rail cable to P1 on the carrier controller board.

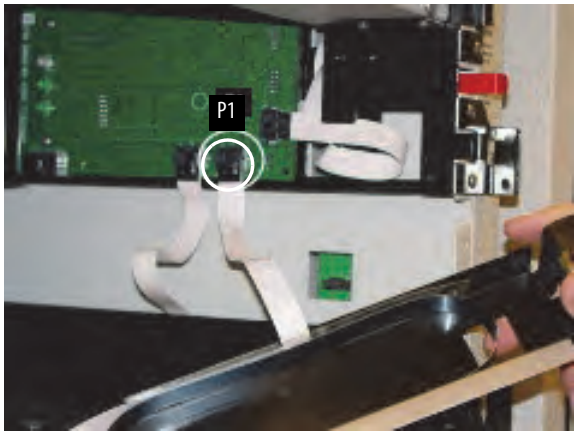


Figure 5-74. Connecting the rail cable to the carrier controller board

2. Use a T-8 Torx driver to install two 8-32 button-head screws to secure the middle bayonet.
3. Make sure the free cable end which will be plugged into the rail frame is positioned above the drawer bayonet.
4. Tuck excess cable behind the bayonets.

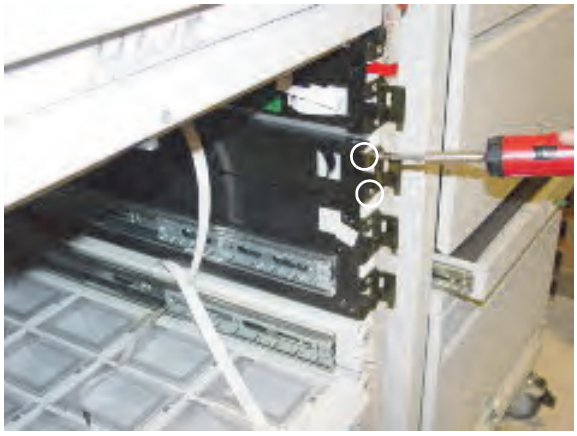


Figure 5-75. Installing the middle bayonet

5. Use a T-15 Torx driver to install four 4-40 flat-head screws securing carrier controller cover.

Figure 5-76. Installing the carrier controller cover

6. Connect the rail cable to P1 on the rail controller board.

Figure 5-77. Connecting the rail cable from the rail controller board

7. Install the rail cable bracket.
   a. Use a T-10 Torx driver to tighten the 6-32 button head screw that secures the rail cable bracket to the rail frame
   b. Use a T-10 Torx driver to install two 6-32 flat-head screws that secures the rail cable bracket.

Replacing the Carrier Controller Board

The carrier controller board (PN#40-8008) can be replaced as needed.

Access the OmniDispenser

1. Perform a graceful shutdown of the CT console, then power down the cabinet. If servicing an ODM in an auxiliary cabinet, power down both cabinets (main and aux).
2. Unlock and remove the manual override cover.

3. Pull the manual override lever and open the restock door.

Remove the Carrier Controller Board

1. Use a T-8 Torx driver to remove four 4-40 button-head screws securing carrier controller cover.

Figure 5-78. Removing the carrier controller cover

2. Remove the carrier controller cover and set aside.
3. Use a T-8 Torx driver to remove four 4-40 button-head screws securing carrier controller board.

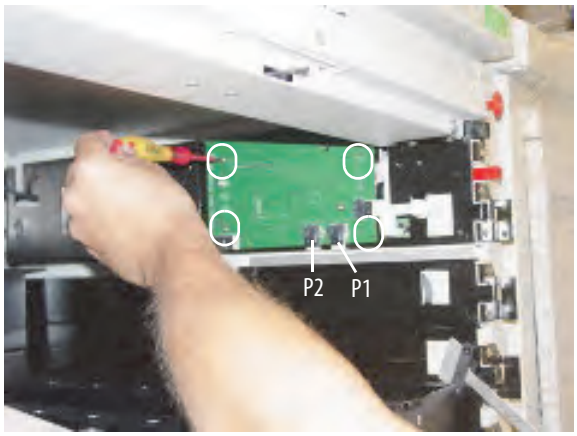


Figure 5-79. Remove the carrier controller board

4. Disconnect all cables from the front and back of the carrier controller board, as applicable.

Install the New Carrier Controller Board

1. Connect the 14-pin ribbon cable (PN# 42-8038) to J3 on the back of the carrier controller board.

Figure 5-80. Connecting the ribbon cable

2. Connect the top and bottom carrier controller 10-pin ribbon cables. This step varies with dispenser type.

   For ODMRx (Figure 5-81):

   a. Connect the upper cable (PN# 42-8041) to P3 on the board front.

   b. Connect the lower cable (PN# 42- 8041) to P4 on the board front.

   For ODMTall and +3:

   a. Connect the upper cable (PN# 42-8036) to J1 on the board rear.

   b. Connect the lower cable (PN# 42- 8037) to J2 on the board rear.

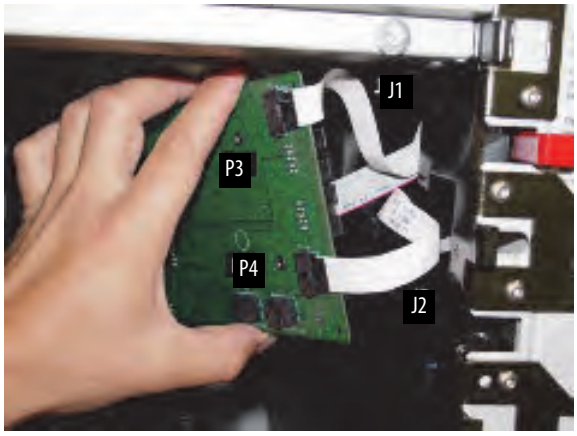


Figure 5-81. Connecting the carrier cables

3. Use a T-8 Torx driver to install four 4-40 button-head screws to secure the carrier controller board.

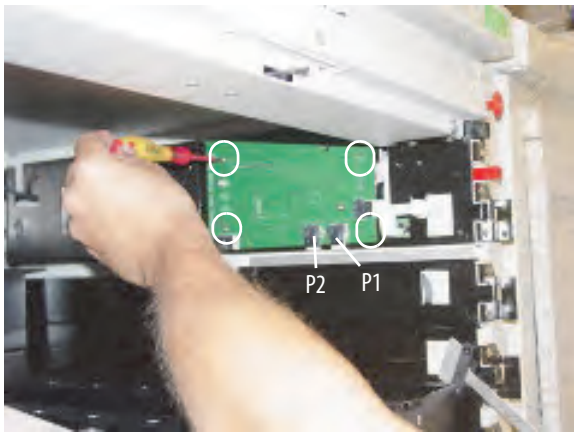


Figure 5-82. Securing the carrier controller board

4. Make sure rail and drawer cable connectors are in front of the board and tuck controller cable slack behind the top bayonet.
5. Connect the rail cable (PN# 42-8040) to P1 on the board front.
6. Connect the dispense drawer cable (PN# 42-8039) to P2 on the board front.
7. Use a T8 Torx driver to install four 4-40 button head screws that secure the carrier controller cover.

Figure 5-83. Securing the carrier controller cover

Field Replaceable Parts

The following OmniDispenser module parts/assemblies can be ordered and replaced as needed.

Part #	ODM RX	ODM Tall	ODM +3	Description	Qty
11-4135		X		MFG ASSY,DOOR,1/2 LOWER,OMNI 2	1
13-7003			X	MFG ASSY,DRAWER CARRIER,3-DWR	1
14-8017	X	X	X	MFG ASSY,RAIL,OMNIDISPENSER	1
14-8024	X	X	X	MFG ASSY,RAIL DIVIDER,OMNIDISPENER	2
14-8025	X	X	X	MFG ASSY, DISPENSER DRAWER, OMNIDISPENSER	1
15-8015	X			MFG ASSY,TOP CROSS BAR,OMNIRX, OMNIDISPENSER	1
15-8019	X	X	X	MFG ASSY,RESTOCK DOOR,OMNIDISPENSER	1
15-8021		X	X	MFG ASSY,TOP CROSS BAR,OMNISUPPLIER, OMNIDISPENSER	1
15-8024		X		MFG ASSY,HINGE,OMNISUPPLER,OMNIDISPENSER	1
40-8008	X	X	X	PCBA,CARRIER CONTROLLER,OMNIDISPENSER	1
42-8036		X	X	CABLE ASSY,OMNIDISPENSER CONTROLLER,TOP	1
42-8037		X	X	CABLE ASSY,OMNIDISPENSER CONTROLLER, BOTTOM	1
42-8039	X	X	X	CABLE ASSY,DISPENSE DRAWER,OMNIDISPENSER	1
42-8040	X	X	X	CABLE ASSY,RAIL,OMNIDISPENSER	1
42-8041	X			CABLE ASSY,OMNIDISPENSER CONTROLLER, RX	2
51-8010		X	X	CABLE,DISPENSE DRAWER MO,OMNIDISPENSER	1
53-2062		X		BRACKET,HINGE,LOWER,OMNI 2	1
53-7134			X	BKT,LOWER FACIA,3-DWR	1
53-8054	X	X	X	BRACKET, CABLE CLAMP, RAIL CONNECT, OMNIDISPENSER	1
53-8093		X	X	BKT,TOP COVER,CARRIER,OMNIDISPENSER	1
53-8101	X	X	X	BKT,SIDE CONTROLLER COVER,OMNIDISPESER	1
53-8118			X	BKT,SPACER,3-DWR	1
56-8006	X	X	X	LINER, FOAM, CUSHION, DISPENSE DAWER, OMNIDISPENSER	1
56-8007		X	X	COVER,SIDE,OMNIDISPENSER,OMNISUPPLIER	2
93-6075	X	X	X	TOOL,#2 PHILLIPS,8 INCH,OMNIDISPENSER	1
94-6130		X		WASHER,TEFLON,.25ID X.5 OD,	1
94-6162		X	X	SCREW,FH TORX,6-32 X 3/16,100	2
94-6181		X		SCREW,FH TORX,8-32 X 3/8,PATCH,SS	2

Table 5-1. Field Replaceable Parts

Glossary

Bin The drawer bin or unit dose dispenser to which an item can be assigned.

Cassette Mechanical apparatus used with cassette dispensers, to house and dispense unit dose medications, such as oral solids; Cassettes are filled, then inserted into the cassette dispensers.

Diagnostics System tests run to ensure proper operation by identifying any issues that may cause user problems

Dispenser Mechanical apparatus used to house and dispense unit dose medications; Varieties include cassette, syringe, vial, and ampule dispensers.

Dispense Drawer Drawer into which the unit-dose medications are delivered, then accessed by the user

Dispensing Locations Locations in the OmniDispenser assigned or assignable to a specific item

FIFO First In - First Out; Inventory term used to describe the flow of stock

ODM OmniDispenser (Module); Single-dose dispensing module designed for use in OmniSupplier Color Touch and OmniRx Color Touch cabinets

ODMPlus 3 ODMTall with a 3-drawer Pharmacy carrier

ODMRx OmniDispenser (Module) designed to fit an OmniRx cabinet

ODMTall OmniDispenser (Module) designed to fit 1-, 2-, 3-cell OmniSupplier cabinets

Rail Frame Four-sided rail assembly into which the OmniDispenser rails are installed

Replaceable Parts Parts for Omnicell equipment that can be replaced in the field by a qualified Omnicell representative

Restock Door Provides access to the individual dispensers and internal hardware components for restock, diagnostics and service purposes.

Troubleshooting To determine which, if any, service procedure is necessary to correct a system issue based on the nature of the problem

Unit-Dose Dispensing method in which medications are released one dose at a time; abbreviated UD; also, UDD—unit dose dispenser

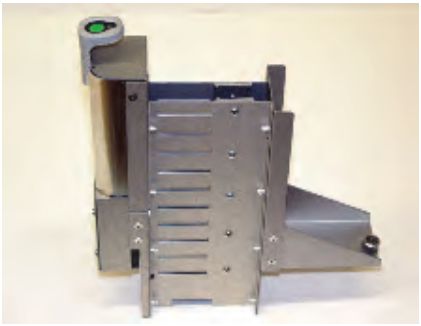
Appendix A: Dispenser and Cassette Lists

Dispenser List

The following dispensers are designed exclusively for use with the OmniDispenser module.

5 ML Ampule Dispenser

Part #:	14-8022
Width:	Double rail
Capacity:	6 ampules
Placement:	Rails A or D in any rail position (1-9)
Notes:	If using Rail A, optional rail B cannot be present. If using Rail D, optional Rail E cannot be present

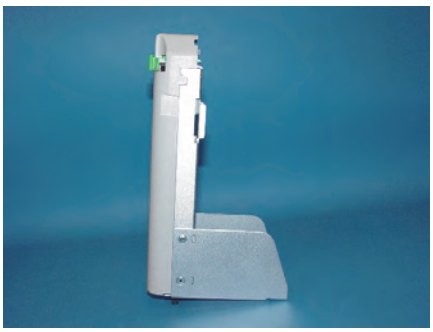


5 ML Vial Dispenser

Part #:	14-8033
Width:	Double rail
Capacity:	10 vials
Placement:	Rails A or D in any rail position (1-9)
Notes:	If using Rail A, optional rail B cannot be present. If using Rail D, optional Rail E cannot be present; comes with loading tool

Small Cassette Dispenser

Part #:	14-8026
Width:	Single rail
Cassettes:	Oral Solid #1-13 (capacity varies); 1ML/2ML Vials (capacity = 18)
Placement:	Can be placed on any single rail. Can not be placed on the same rail as a double rail width dispenser.
Notes:	Rail C can only contain small cassette dispensers.

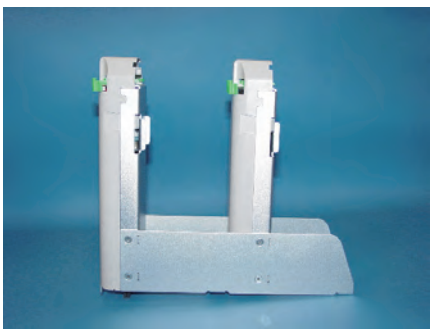


Slim-Pak Dispenser

Part #:	14-8032, 14-8037
Width:	Double rail
Capacity:	22 Slim-Pak syringes; Carpujects must be in Slim-Pak packaging
Placement:	Rails A or D in any rail position (1-9)
Notes:	If using Rail A, optional rail B cannot be present. If using Rail D, optional Rail E cannot be present.

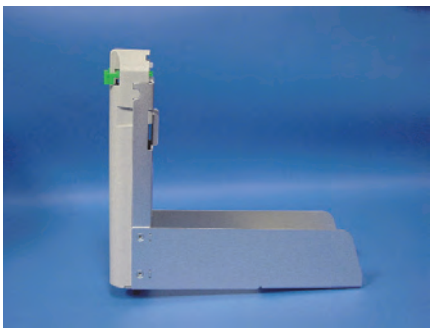
Double Cassette Dispenser

Part #:	14-8028
Width:	Double rail
Cassettes:	Oral Solid #1-13 (capacity varies); 1ML/2ML Vials (capacity = 18)
Placement:	Rail A - rail position (1-8)
Notes:	If using Rail A, optional rail B cannot be present. Software interprets dispenser as occupying both rail positions. Example: A1 *and* B1



ATC / 1ML / 2ML Cassette Dispenser

Part #:	14-8029
Width:	Double rail
Capacity:	24 ampules
Placement:	Rails A or D in any rail position (1-9)
Notes:	If using Rail A, optional rail B cannot be present. If using Rail D, optional Rail E cannot be present. Make adjustments as needed prior to installation. **Refer to "Adjusting Dispensers" on page 4-3.** It holds: 1ML/2 ML AMP, Canadian Vial, ATC System OS 200/250/300 Strip Pack 200/250/300



Cassette List

The following cassettes are used in the OmniDispenser module with the specified dispensers. Table A-1 lists cassettes for small dispensers (#14-8026) and double dispensers (#14-8028). Table A-2 lists cassettes for ATC/1ML/2ML dispensers (#14-8029).

Note: The Slim Pak Dispenser (#14-8032, 14-8037), 5mm Ampule Dispenser (#14-8022), and the 5mm Vial Dispenser (#14-8023) do not use cassettes.

Part #	Description	Unit Dose	Dose Qty
15-8100	CASSETTE, DISPENSER, 1-2ML VIAL	2/PKG	18
15-8101	CASSETTE, ORAL SOLID #1	2/PKG	35
15-8102	CASSETTE, ORAL SOLID #2	2/PKG	25
15-8103	CASSETTE, ORAL SOLID #3	2/PKG	35
15-8104	CASSETTE, ORAL SOLID #4	2/PKG	25
15-8105	CASSETTE, ORAL SOLID #5	2/PKG	40
15-8106	CASSETTE, ORAL SOLID #6	2/PKG	20
15-8107	CASSETTE, ORAL SOLID #7	2/PKG	20
15-8108	CASSETTE, ORAL SOLID #8	2/PKG	19
15-8109	CASSETTE, ORAL SOLID #9	2/PKG	35
15-8110	CASSETTE, ORAL SOLID #10	2/PKG	20
15-8111	CASSETTE, ORAL SOLID #11	2/PKG	25
15-8112	CASSETTE, ORAL SOLID #12	2/PKG	35
15-8113	CASSETTE, ORAL SOLID #13	2/PKG	20
15-8118	CASSETTE, DISPENSER, 1ML Vial	2/PKG	18

Table A-1. Cassette options for Small and Double Cassette Dispensers

Part#	Description	Unit Dose	Dose Qty
15-8115	CASSETTE, CANADIAN—VIAL	2/PKG	18
15-8116	CASSETTE, 1ML, AMPULE	2/PKG	24
15-8117	CASSETTE, 2ML, AMPULE	2/PKG	24
15-8120	CASSETTE, ATC SYSTEM OS 200	2/PKG	20
15-8121	CASSETTE, ATC SYSTEM OS 250	2/PKG	25
15-8122	CASSETTE, ATC SYSTEM OS 300	2/PKG	30
15-8123	CASSETTE, STRIP PACK 200	2/PKG	20
15-8124	CASSETTE, STRIP PACK 250	2/PKG	25
15-8125	CASSETTE, STRIP PACK 300	2/PKG	30

Table A-2. Cassette options for ATC, 1ML, 2ML Dispensers

Note: **Dose Quantity** is based on optimal capacity, not coil count.

Order Information

Rails

Rails B and E are optional and can be added or removed as needed.

Order information: PN 14-8024, Mfg. Assy, Rail Divider, OmniDispenser

Dispensers/Cassettes

Cassettes and dispensers must be ordered separately. Refer to "Dispenser List" on page A-1 for dispenser part number and name for ordering. Refer to "Cassette List" on page A-3 for cassette part number and name for ordering.

Appendix B: Cassette Sizing Tool

Overview

A cassette sizing tool is provided with the OmniDispenser module (PN #56-8008—Sizing Tool, Cassettes) to aid in selecting the correct dispenser cassette for a medication.

The sizing tool is an $8^{1}/_{2}$" x 11" die-cut plastic template. The user first determines package dimensions by inserting the medication through the applicable die-cuts in the template, then locates the corresponding cassette number.

Sizing Tool Instructions

Oral Solids

Determine the correct cassette for an oral solid in a blister pack by using the die-cuts in section A of the sizing tool. Prior to choosing a cassette to fill, make sure to trim any uneven tear areas that remain when items are separated at the perforation. Consider the maximum distance in all directions when measuring.

Note: The longer dimension of the package is considered the length; the shorter dimension is the width.

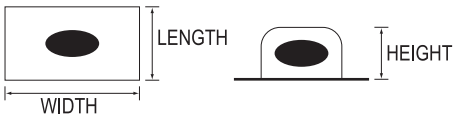


Figure B-1. Oral Solid Dimensions

Using section A of the sizing tool:

1. Determine the blister height, using the die-cuts on the left.
2. Determine the package length and width, using the die-cuts on the top of the template.
3. Locate the intersection of the two points (height and length/width) on the sizing tool grid. Make note of the cassette/part number of the matching cassette.

Example:

Blister Height = .148"

Length/Width = 1.0" x 1.1"

Cassette = #9, 14-8109

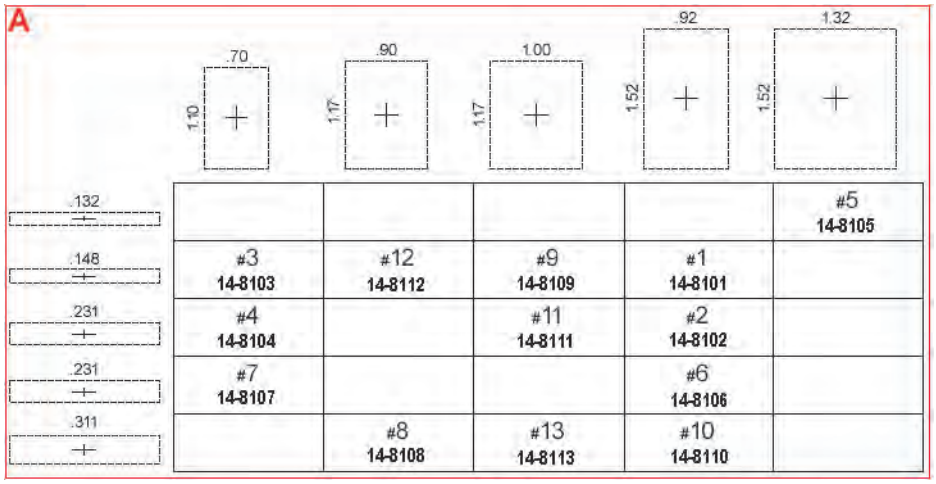


Figure B-2. Section A of Sizing Tool

ATC or Strip Pack

Determine the correct cassette for an ATC or Strip Pack by using the die-cuts in section B of the sizing tool. Consider the maximum distance in all directions when measuring, making sure to trim any uneven tear areas.

Using section B of the sizing tool:

1. Determine if the package is an ATC or Strip Pack by measuring against the length chart on the right.
2. Determine the blister height using die-cuts on the left.
3. Make note of the corresponding ATC or Strip Pack cassette/part number to the right of the die-cut.

Example:

Package Length = 2.10"

Blister Height = .150"

Cassette = Strip Pack 300, 14-8125

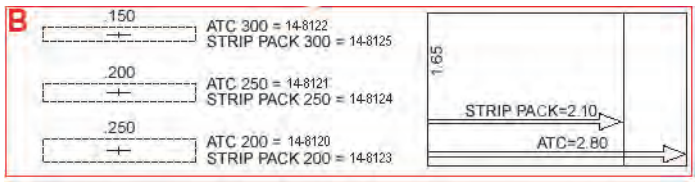


Figure B-3. Section B of Sizing Tool

Vials

Determine the correct cassette for a 1ml or 2ml vial (1ml/2ml vial or Canadian vial cassette) by using the die-cuts in section C of the sizing tool.

Note: 5ml vials go directly into 5ml vial dispensers, thus are not included in the sizing tool.

Using section C of the sizing tool:

1. Insert the vial lengthwise through the die-cuts, considering vial diameter and height.
2. Make note of the corresponding vial cassette/part number above the die-cut.

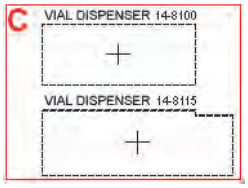
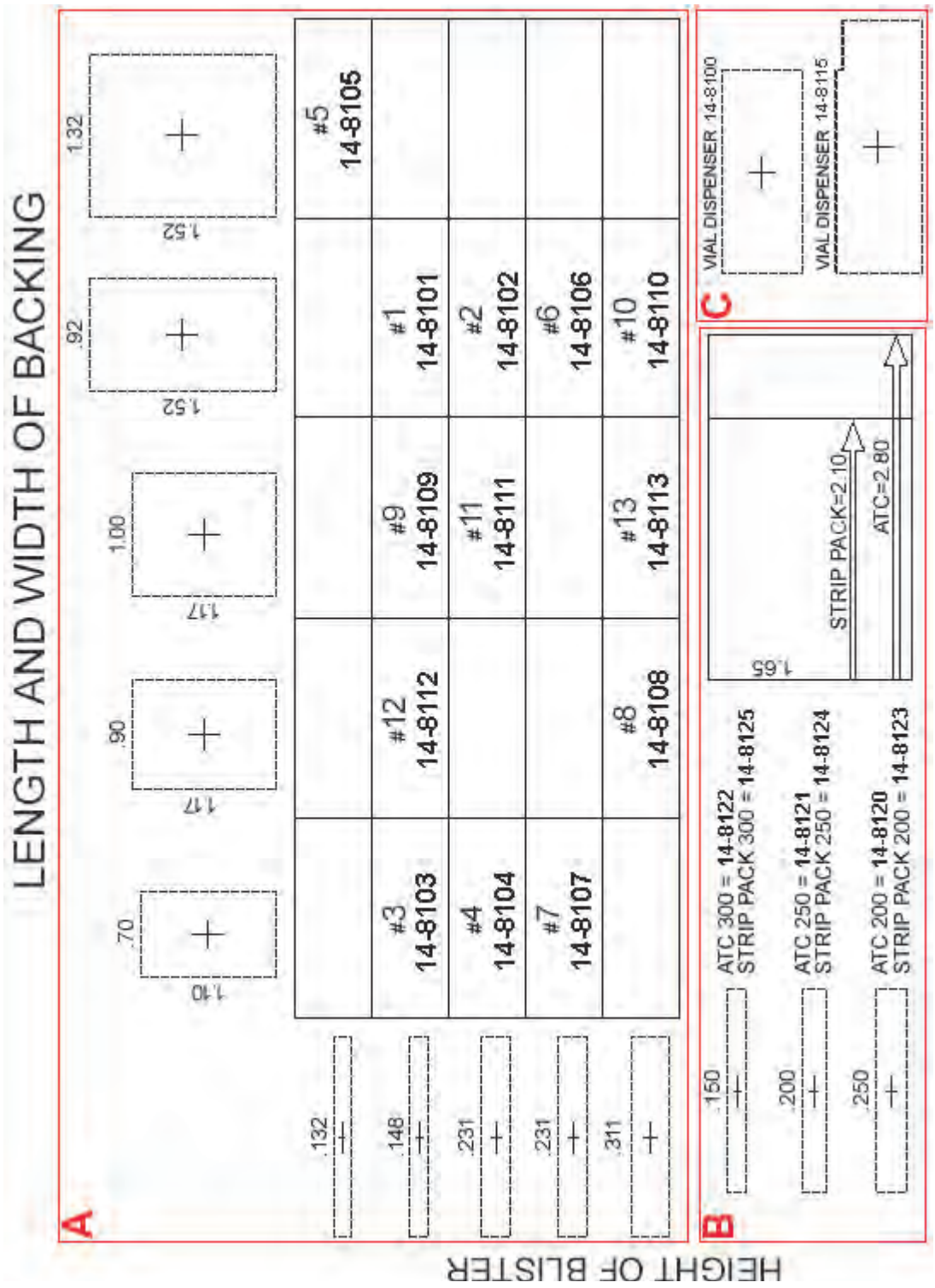


Figure B-4. Section C of Sizing Tool

Sizing Tool

The sizing tool is used to estimate package-to-cassette compatibility. If a package does not exactly match one of the die-cuts, match the package height first, then select the die-cut with smallest length and width that the medication fits through.

The full sizing tool replica on the next page was scaled down to fit into the document.



Appendix C: Troubleshooting Guide

Overview

This appendix provides basic troubleshooting information for the OmniDispenser module and components. Please contact Omnicell Technical Support for further information and/or before attempting any major repairs.

Dispensing Problems

ISSUE	POSSIBLE CAUSE
Dispenser consistently fails to dispense.	Dispenser is damaged.
	Cassette not inserted properly in dispenser (gears not engaged).
	Incorrect dispenser/cassette for medication.
	Dispenser/dispenser cassette not filled properly. See "Loading Issues" on page C-1.
	Double cassette dispenser installed in rail position A9 (can only be installed in A1-A8).
	Rail or rail connector problem. See "Hardware Troubleshooting" on page C-3.
Dispenser over or under dispenses	Incorrect dispenser/cassette for medication.
	Dispenser/dispenser cassette not filled properly. See "Loading Issues" on page C-1.
Dispense drawer is empty when user attempts to retrieve the dispensed meds.	Drug rolled to back of drawer.
	Dispense error occurred.
Error message displays	See "Hardware Troubleshooting" on page C-3.

Loading Issues

For more information about proper dispenser/cassette selection and loading techniques, refer to "Implementation" on page 4-1.

Oral Solid Cassettes

- Wrong size/type of cassette for medication
- Package not trimmed properly to prevent jamming/catching
- Medication too small and/or light to work well in cassettes (example: Lomotil)
- Medication loaded in wrong direction or upside down—most meds should be loaded bubble up.
- Medication loaded from the top of the cassette, with spaces remaining on bottom coils, or coils skipped during restock.

Vial/Ampule Cassettes

- Wrong size/type of cassette for medication.

5ml Vial/Ampule Dispensers

- Vial or Ampule is on its side or standing up.

Syringe Dispensers

- Syringes not in Slim-Pak containers.

User Access Problems

ISSUE	POSSIBLE CAUSE
Dispenser consistently fails to dispense.	UD Access field not enabled for that user in the OmniCenter Users database.
	Pharmacy access not enabled for that user in the OmniCenter Users database.
User unable to access particular dispensers during inventory functions.	User does not have proper pharmacy/ control level access for the associated medications.
Med does not display during patient care functions for a particular user.	User does not have proper pharmacy/ control level access for the associated medications
Drugs frequently left in drawer after time-out.	Color Touch time-out settings too short.

Hardware Troubleshooting

First Steps

If the module does not respond properly during implementation, or if diagnostic or dispense error messages display, try the following basic troubleshooting steps before escalating the issue:

- Make sure that nothing is obstructing the sensor path.
- If the restock compartment was open when the error occurred, close the restock door and retry the function and/or applicable diagnostic.
- Make sure all dispensers are seated properly on the rails.
- Press the Reset Wireway button.
- Verify that the rail frame is properly connected by pressing the rail controller board firmly into the connector (see figure C-2).

Interpreting LEDs

The OmniDispenser module contains a series LEDs that can be used to identify specific problem areas. These are located as follows:

- One LED on the front of each installed rail (A-E).
- Two LEDs on the rail controller board.
- Three LEDs on the carrier controller board

Rail Front LEDs

Each installed rail and the detector board (far right side of the rail frame) contains one bi-color status LED—located on the front of the rail. Table C-1, Rail Front LED Behavior states the LED color and status. Table C-2, Rail Front Test Scenarios provides methods to check the status and function of the rails.

Figure C-1. Rail Front LEDs

Color	Status
Green	Rail is getting power. (standard condition)
Red (solid/flickering)	Communication is occurring on the rail.

Table C-1. Rail Front LED Behavior

Test	LED Result	Interpretation
Check to see if the rail is receiving power.	Green	Rail is getting power.
	Not on	Rail is not getting power.
Send a dispense command to the rail by pressing **Dispense** in Diagnostics window	flashes Red	The rail is communicating properly.
	stays Green	The rail is not communicating.

Table C-2. Rail Front Test Scenarios

Rail Controller Board LEDs

The rail controller board—located on the rear, right-hand corner of the rail frame, contains two green LEDs. Table C-3, Rail Controller Board LED Behavior states the LED color and status. Table C-4, Rail Controller Board Test Scenarios provides methods to check the status and function of the rail controller board.

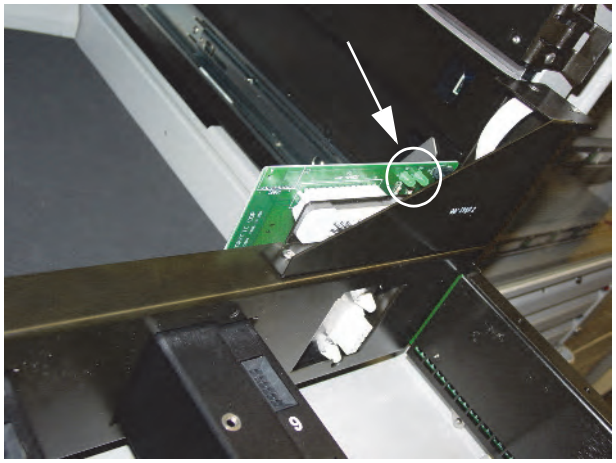


Figure C-2. Rail Controller Board LEDs

Color	Status
Left - Green, Right - off	Rail assembly [5v logic] is getting power. (standard condition)
Both - green	A dispense transaction is occurring. The rail controller [24v solenoid] has power.

Table C-3. Rail Controller Board LED Behavior

Test	LED Result	Interpretation
Check to see if the left LED is lit.	Green	The rail assembly is getting power.
	Not on	The rail assembly is not getting power.

Table C-4. Rail Controller Board Test Scenarios

Test	LED Result	Interpretation
Send a dispense command to the rail by pressing **Dispense** in Diagnostics window. Check right LED during dispense.	Green	The rail controller (24v solenoid) is getting power.
	Not on	The rail controller (24v solenoid) is not getting power.

Table C-4. Rail Controller Board Test Scenarios

Carrier Controller Board LEDs

The carrier controller board (in the top bayonet) contains three LEDs—one bi-color status LED (top) and two green LEDs (middle and bottom). Table C-5, Carrier Controller Board LED Behavior states the LED color and status. Table C-6, Carrier Controller Board Test Scenarios provides methods to check the status and function of the carrier controller board.

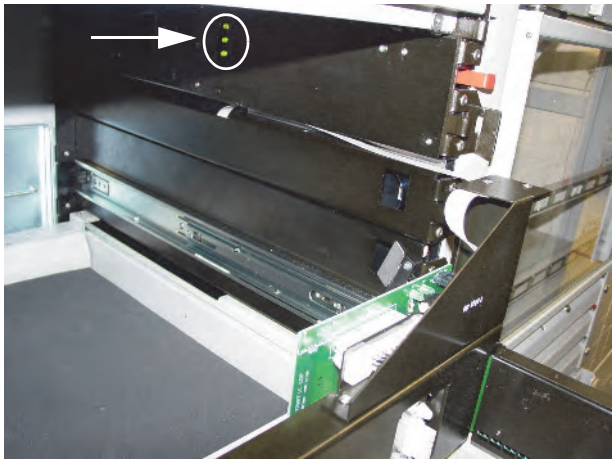


Figure C-3. Carrier Controller Board LEDs

Color	Status
All - Green	Carrier controller is getting power. (standard condition)
Top - Red (solid, flickering), Others - Green	Communication is occurring on the carrier controller board.

Table C-5. Carrier Controller Board LED Behavior

Test	LED Result	Interpretation
Check all three LEDs.	All - off	The carrier controller is not getting power. (12v from cabinet)
	Only bottom LED is off	The carrier controller is not generating power (24v solenoid).
Reboot the cabinet and check the top LED.	Flickers Red-Green	The carrier controller may have lost its programming.
	Solid Red > 10 sec.	There is a rail communication problem.

Table C-6. Carrier Controller Board Test Scenarios

Error Messages

If any error occurs during an OmniDispenser function, one or more of the following messages will be displayed. Contact Omnicell Technical Support before performing any major service procedure.

ERROR MESSAGES	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
12v Input #1 exceeds current limits	Input #1 and #2 run from the frame to the carrier controller. Module is drawing too much current from input #1.	Input #2 is not fully connected at the frame or sideboard or there is bad input from input #1 or input #2 cable.	**First Steps:** Check cable connections at the carrier controller and wireway. **If problem persists:** Replace the carrier controller cables.
12v Input #2 Exceeds Current Limits	Input #1 and #2 run from the frame to the carrier controller. Module is drawing too much current from Input #2.	Input #1 is not fully connected at the frame or sideboard or there is bad Input from #1 or Input #2 cable.	**First steps:** Check cable connections at the carrier controller and wireway. **If problem persists:** Replace the carrier controller cables. See "Replacing the Carrier Controller Board" on page 5-41.
Amp OM	Module is drawing too much power.	Possible shorted dispenser motor, dispenser solenoid or rail cable; short on rail or emitter card.	**First steps:** Remove all dispensers and retest. If the error message does *not* re-occur, test each dispenser. Fix/replace the error causing dispenser. **If problem persists:** Replace rail cable. **If problem still persists**: Replace rail assembly and/or carrier controller board.
Bus Communication Failure	There is a communication problem between the controller board and the rail assembly.	Possible bad emitter board, detector board or rail; rail assembly unplugged; or configuration changed without powering down	**First steps:** If rail configuration was changed without powering down the cabinet, power cabinet down and back up again. Otherwise, verify that the rail cable is properly connected at both ends and is not visibly damaged. Retry function or run diagnostics to test. **If problem persists:** Replace the rail cable. **If problem still persists**: Replace the rail assembly.
Detector Backoff Puts Gain at Max	Indicated bank # did not meet calibration specifications—not enough infrared detected.	There is possible blockage or a bad emitter or detector board. Check sensor path for any obstruction. Make sure rail is pushed in and restock door closed, then retry function or run emitter diagnostic to test.	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.

ERROR MESSAGES	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
Detector Bank Failed	Internal error indicates a system or detector board error.	There is a possible bad detector board or bad sideboard and wire harness.	**First steps**: Run the Dispense Setup diagnostic to troubleshoot. **If problem persists**: Replace the rail assembly.
Detector Gain at Max (emitters too dim)	Indicated bank # did not meet calibration specifications—not enough infrared detected.	There is a possible blockage or bad emitter or detector board.	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.
Detector Gain at Min (emitters too bright)	Indicated bank # did not meet calibration specifications—too much infrared or ambient light detected.	There is a possible bad emitter or detector board or too much light (restock compartment open near strong light source).	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.
Emitter Bank failed	Fixed rail (A, C or D) did not respond to request to enable a bank of emitters.	Indicated rail may be damaged—possible bad emitter or detector board.	**First steps**: Reboot the cabinet, then run the Dispense Setup diagnostic. **If problem persists**: Replace the rail assembly.
Sideboard Time-out	There is a communication problem with the sideboard. The dispense process took longer than it should have.	There is a possible bad board (any of the main system boards) or wire harness.	**First steps**: Run the Internal Bus Communication diagnostic and check the status LEDs to troubleshoot. Refer to "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.

Diagnostic Results

Internal Bus Communication Diagnostic

This diagnostic checks OmniDispenser rail assembly communication.

DIAGNOSTICS RESULTS	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
Internal bus corruption	Controller board received an unexpected response from one or more rails. There is intermittent communications or collision.	One or more rails may be damaged.	**First Step**s: Press **Reset Wireway** button. **If problem persists**: Swap out suspect rails one at a time to determine specific problem area.
Internal Bus Time-out	Communication problem between controller board and one or more rail dividers. Diagnostic message displays 1st non-responsive rail.	One or more rails may be damaged.	**First Steps**: Press **Reset Wireway** button. **If problem persists**: Swap out suspect rails one at a time to determine specific problem area.
Pass	Rail assembly communication is OK.		

Dispense Setup Diagnostic

This diagnostic auto-calibrates the sensors to verify that the emitters and detectors are functioning within specifications.

DIAGNOSTICS RESULTS	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
Corrupted communication during "stop unsolicited messages" phase	There is a communication problem between the controller board and one or more rail dividers. Diagnostic message displays 1st indicated rail.	One or more rails may be damaged.	**First steps**: Press **Reset Wireway** button. **If problem persists**: Swap out suspect rails one at a time to determine specific problem area.
Corrupted communication while turning on (detector or emitter).	The detector board sent an unexpected response.	The board is possibly damaged, or there is a disconnected or bad cable.	**First steps**: Press **Reset Wireway** button. **If problem persists**: Replace the rail assembly.
Detector side (A or B) backoff max gain	The indicated bank # did not meet calibration specifications—not enough infrared detected.	There is a possible blockage or bad emitter(s).	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry the function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.

DIAGNOSTICS RESULTS	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
Detector side (A or B) max gain	The indicated bank # did not meet calibration specifications—not enough infrared detected.	There is a possible blockage or bad emitter(s).	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry the function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.
Detector side (A or B) min gain	The indicated bank # did not meet calibration specifications—too much infrared or ambient light detected.	There is a possible bad emitter or too much light (restock compartment open near strong light source).	**First steps**: Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry the function or run emitter diagnostic to test. **If problem persists**: Replace the rail assembly.
Pass	Sensors are working at acceptable levels for this diagnostic.		
Time-out during "stop unsolicited messages" phase	There is a communication problem between the controller board and one or more rail dividers. Diagnostic message displays 1st non-responsive rail.	One or more rails may be damaged.	**First steps**: Press **Reset Wireway** button. If problem persists: Swap out suspect rails one at a time to determine specific problem area.
Time-out during internal dispenser command	There is a communication problem between the controller board and the rail board.	There is a possible board or cable problem.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Time-out while turning on (detector or emitter)	Detector or emitter board is not responding.	The board is possibly damaged, or there is a disconnected or bad cable.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.

Firmware Revision Diagnostic

This diagnostic verifies that the emitter, detector, and rail boards match the current firmware version of the controller board. The firmware version of the sideboard controller displays on the Diagnostics menu screen, once the OmniDispenser module is selected.

DIAGNOSTICS RESULTS	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
Board Firmware higher than sideboard	One or more boards are at a higher firmware version than the controller board. Diagnostic message displays the 1st indicated board.	The controller board requires a firmware upgrade.	Upgrade the controller board. Make sure all other boards are at the same version as the first indicated board.
Board Firmware lower than sideboard	One or more boards are at a lower firmware version than the controller board. Diagnostic message displays the 1st indicated board.	One or more boards require a firmware upgrade.	Check firmware version on all boards. Upgrade any boards at a lower version than the controller board.
Internal Bus Communication corruption	There is a communication problem between the controller board and one or more of the other boards.	The board is possibly damaged, or there is a disconnected or bad cable.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Internal Bus Communication time-out	There is a communication problem between the controller board and one or more of the other boards.	The board is possibly damaged, or there is a disconnected or bad cable.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Pass	Firmware versions match across all boards.		

Emitter Full and Emitter Bank Diagnostics

The Emitter Full diagnostic auto-calibrates and tests each emitter, providing an overall pass/fail result for each emitter bank. The Emitter Bank diagnostic is the same as Emitter Full Diagnostic, except the user specifies which emitter banks to test.

DIAGNOSTICS RESULTS	INTERPRETATION	POSSIBLE CAUSE	SUGGESTED ACTION
(Detector or Emitter) failed	Indicated detector or emitter bank did not meet minimum diagnostic criteria.	There is possible blockage or bad detector(s). Check the sensor path for any obstruction. Make sure the rail is pushed in and the restock door is closed, then retry the diagnostic.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Detector stuck	Indicated detector bank did not meet minimum diagnostic criteria.	There are possible bad detector(s). Make sure the rail is pushed in and the restock door is closed, then retry the diagnostic.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Internal bus communication corruption	There is a communication problem between the controller and one or more emitter and/or detector boards.	There is possibly a damaged board, a disconnected cable or a bad cable.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persists**: Replace the rail assembly.
Internal bus communication time-out	There is a communication problem between the controller and one or more emitter and/or detector boards.	There is possibly a damaged board, a disconnected cable or a bad cable.	**First steps**: Press **Reset Wireway** button, then check the status LEDs to troubleshoot. See "Interpreting LEDs" on page C-3. **If problem persist**s: Replace the rail assembly.
Pass	The emitter banks are functioning within the parameters of the diagnostic.		

OmniDispenser Module Communications Flow Chart

The following diagram illustrates the path of power and communications within the OmniDispenser module. When used in conjunction with the troubleshooting guide, this chart may aid in pinpointing specific problem areas within the module.

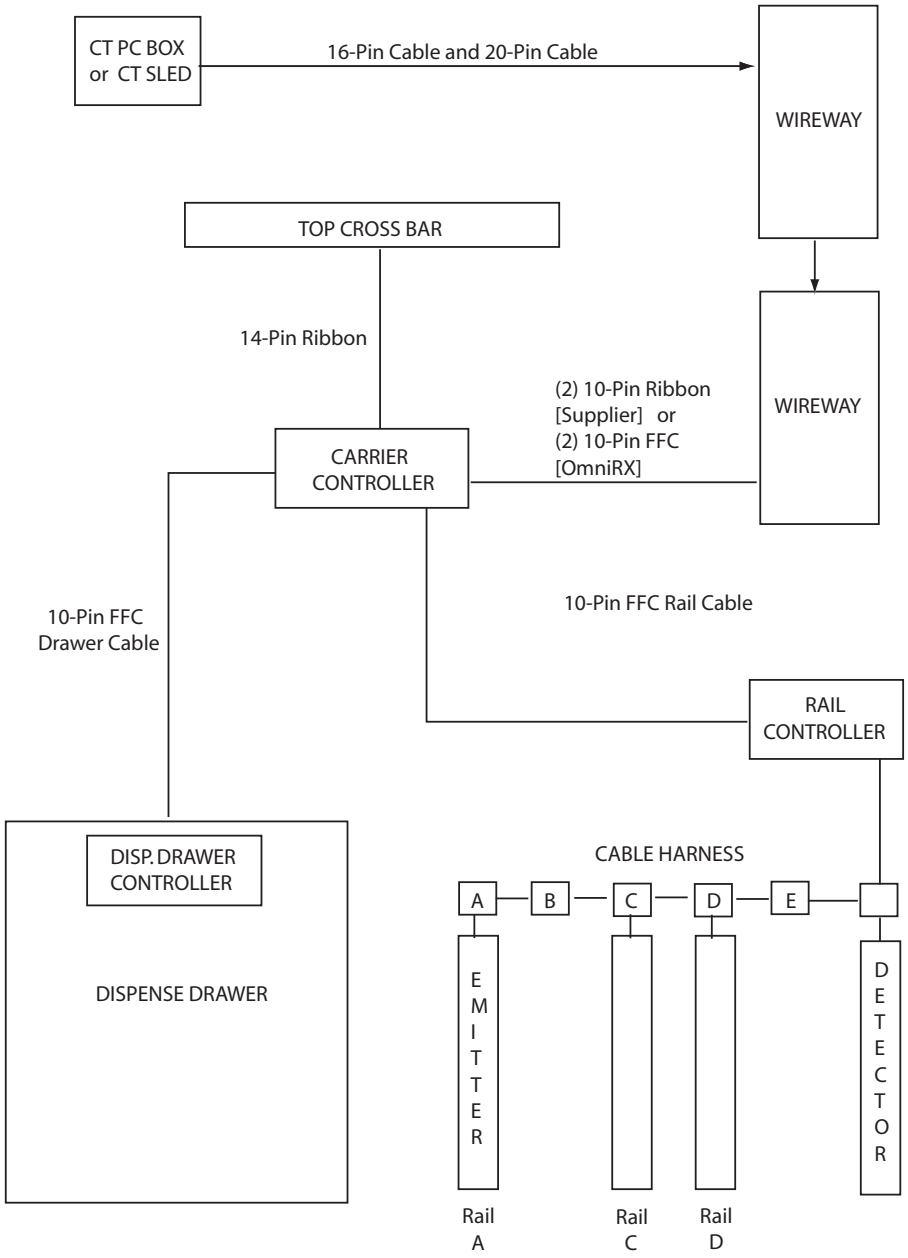


Figure C-4. Communications Flow Chart

Appendix D: Medication to Cassette List

The list of medications in this appendix can be used as a guideline. It is not necessarily complete or up-to-date since this type of information is constantly changing. Please contact Omnicell field operations or product managers for specific issues.

Dispenser/Cassette List

Dispensers	Part #	Dose Qty	Specs
5 ML Amp Dispenser	14-8022	5 mL Amps	Dispenser
5 ML Vial Dispenser	14-8033	5 mL Vials	Dispenser
Small Cassette Dispenser	14-8026	N/A	Housing for cassettes #1-13, 1 mL/2 mL vials
Slim-Pak Dispenser (syringes)	14-8032	22	Slim-Pak Carpujects
Double Cassette Dispenser	14-8028	N/A	Housing for cassettes #1-13, 1 mL/2 mL vials
ATC/1ML/2ML Cassette Dispenser	14-8029	N/A	ATC, Strip Pack, 1 mL/2 mL amps, Ca nadian vials

Table D-1. OmniDispenser Dispensers with Specifications

Cassettes	Part #	Dose Qty	Specs
Vial Cassette	14-8100	18	1 & 2 mL vials
Canadian Vial Cassette	14-8115	18	1 & 2 mL Canadian vials
Ampule Cassette 1 mL	14-8116	24	1 mL ampule
Ampule Cassette 2 mL	14-8117	24	2 mL ampule
ATC 200	14-8120	20	0.24-0.3"; 6.1-7.62mm
ATC 250	14-8121	25	0.18-0.24"; 4.57-6.09mm
ATC 300	14-8122	30	< 0.24"; 4.56mm
Strip Pack 200	14-8123	20	0.24-0.3"; 6.1-7.62mm
Strip Pack 250	14-8124	25	0.18-0.24"; 4.57-6.09mm
Strip Pack 300	14-8125	30	< 0.24"; 4.56mm
Cassette #01	14-8101	35	1.52" Width, 0.86" Length, 0.148" Height
Cassette #02	14-8102	25	1.52" Width, 0.86" Length, 0.231" Height
Cassette #03	14-8103	35	1.1" Width, 0.66" Length, 0.148" Height
Cassette #04	14-8104	25	1.1" Width, 0.66" Length, 0.231" Height
Cassette #05	14-8105	40	1.52" Width, 1.28" Length, 0.132" Height
Cassette #06	14-8106	20	1.52" Width, 0.86" Length, 0.231" Height

Table D-2. OmniDispenser Cassettes with Specifications

Cassettes	Part #	Dose Qty	Specs
Cassette #07	14-8107	20	1.1" Width, 0.66" Length, 0.231" Height
Cassette #08	14-8108	19	1.17" Width, 0.80" Length, 0.311" Height
Cassette #09	14-8109	35	1.17" Width, 0.96" Length, 0.148" Height
Cassette #10	14-8110	20	1.52" Width, 0.86" Length, 0.311" Height
Cassette #11	14-8111	25	1.17" Width, 0.96" Length, 0.231" Height
Cassette #12	14-8112	35	1.17" Width, 0.80" Length, 0.148" Height
Cassette #13	14-8113	20	1.17" Width, 0.96" Length, 0.311" Height
Vial Cassette - 1 mL special	14-8118	18	special 1 mL vials

Table D-2. OmniDispenser Cassettes with Specifications (Continued)

Oral Solid Medication

Oral Solid Medication Name	Dispenser #	Dose Qty	NDC #	Mfg
Acetaminophen w/Codeine #3	2	25	0615-0430-13	Vanguard
Acetaminophen w/Codeine #3	6	25	51079-0161-20	UDL
Acetaminophen w/Codeine #3	11	25	00054-8022-24	Roxane
Alprazolam 0.25mg Tablet	2	25	00054-8104-25	Roxane
Alprazolam 0.25mg Tablet	11	25	00781-1326-13	Geneva
Alprazolam 0.5mg Tablet	11	25	00781-1327-13	Geneva
Alprazolam 1mg Tablet	11	25	00781-1328-13	Geneva
Ativan 0.5mg Tablet	9	35	00008-0081-05	Wyeth
Ativan 1mg Tablet	1	35	00008-0064-09	Wyeth
Ativan 2mg Tablet	1	35	00008-0065-09	Wyeth
Chloral Hydrate 500mg Cap	10	20	00054-8140-25	Roxane
Chloral Hydrate 500mg Caps	10	20	00615-0413-13	Vanguard
Chlordiazepoxide 10mg Cap	6	20	51079-375-21	UDL
Chlordiazepoxide 25mg Cap	6	20	00812-0979-89	Goldline
Chlordiazepoxide 25mg Cap	6	20	51079-141-20	UDL
Chlordiazepoxide 5mg Cap	6	20	00812-0977-89	Goldline
Chlordiazepoxide 5mg Cap	6	20	51079-374-21	UDL
Clorazepate Dipotassium 3.75mg	2	25	51079-633-20	UDL
Codeine 15mg Tab	9	35	00054-8155-24	Roxane
Codeine 15mg Tab	9	35	00054-8155-25	Roxane
Codeine 30mg Tab	9	35	00054-8156-24	Roxane
Codeine 60mg Tab	9	35	00054-8157-24	Roxane
Darvocet-N 100 Tab	6	20	00002-0363-33	Lily
Darvocet-N 100 Tab	10	18	00002-0363-46	Lily
Darvocet-N 50 Tab	10	20	00002-0351-33	Lily

Table D-3. OmniDispenser Oral Solid Medication to DIspenser/Cassette Listing

Oral Solid Medication Name	Dispenser #	Dose Qty	NDC #	Mfg
Darvon 65mg Cap	6	20	00002-0803-33	Lily
Darvon-N 100mg Tab	6	20	00002-0353-33	Lily
Demerol 50mg Tab	12	35	00024-0335-02	Winthrop
Diazepam 10mg Tab	2	25	00182-1757-89	Goldline
Diazepam 10mg Tab	2	25	00054-8206-25	Roxane
Diazepam 10mg Tab	2	25	51079-0286-20	UDL
Diazepam 10mg Tab	2	25	51079-0286-21	UDL
Diazepam 10mg Tab	2	25	00143-1225-25	Westward
Diazepam 10mg Tab	1 or 2	35	00615-1534-13	Vanguard
Diazepam 10mg Tab	9	35	00054-8206-24	Roxane
Diazepam 2mg Tab	2	20	00182-1755-89	Goldline
Diazepam 2mg Tab	2	25	00054-8204-25	Roxane
Diazepam 2mg Tab	2	25	51079-0284-20	UDL
Diazepam 2mg Tab	2	25	51079-0284-21	UDL
Diazepam 2mg Tab	9	35	00054-8204-24	Roxane
Diazepam 5mg Tab	2	25	51079-0285-21	UDL
Diazepam 5mg Tab	2	25	51079-0285-20	UDL
Diazepam 5mg Tab	2	25	00182-1756-89	Goldline
Diazepam 5mg Tab	2	25	00054-8205-25	Roxane
Diazepam 5mg Tab	1 or 2	35	00615-1533-47	Vanguard
Diazepam 5mg Tab	9	35	00054-8205-24	Roxane
Dilaudid 2mg Tab	9	35	00044-1022-15	Knoll
Dilaudid 4mg Tab	9	35	00044-1024-15	Knoll
Diphenoxylate 2.5mg/Atropine	2	25	51079-067-20	UDL
Fioricet Tab	6	20	00078-0084-06	Sandoz
Fiorinal Tab	6	20	00078-01014-06	Sandoz
Fiorinal w/Codeine #3 Cap	10	20	00078-01017-13	Sandoz
Flurazepam 15mg Cap	6	20	51079-302-21	UDL
Flurazepam 15mg Cap	6	20	00615-0460-13	Vanguard
Flurazepam 15mg Cap	6	20	51079-302-20	UDL
Flurazepam 15mg Cap	10	20	00143-3367-25	Westward
Flurazepam 30mg Cap	6	20	51079-303-21-20	UDL
Flurazepam 30mg Cap	6	20	00615-0461-13	Vanguard
Halcion 0.125mg Tab	2	25	00009-0010-06	Upjohn
Halcion 0.125mg Tab	3	35	00009-0010-22	Upjohn
Halcion 0.125mg Tab	9	35	00009-0010-04	Upjohn
Halcion 0.25mg Tab	3	35	00009-0017-08	Upjohn
Halcion 0.25mg Tab	9	35	00009-0017-04	Upjohn

Table D-3. OmniDispenser Oral Solid Medication to DIspenser/Cassette Listing (Continued)

Oral Solid Medication Name	Dispenser #	Dose Qty	NDC #	Mfg
Hydrocodone-5 w/APAP 500mg	6	20	51079-420-20	UDL
Hydrocodone-5 w/APAP 500mg	6	20	00182-1765-89	Goldline
Hydromorphone 1mg Tab	9	35	00054-8390-24	Roxane
Hydromorphone 2mg Tab	9	35	00054-8392-24	Roxane
Hydromorphone 4mg Tab	9	35	00054-8394-24	Roxane
Klonopin 0.5mg Tab	9	35	00004-0068-50	Roche
Klonopin 1mg Tab	9	35	00004-0058-50	Roche
Klonopin 2mg Tab	9	35	00004-0098-50	Roche
Librium 25mg Cap	2 w/ 8 insert	25	00140-0003-50	Roche
Lorazepam 0.5mg Tab	1	25	51079-0417-21	UDL
Lorazepam 0.5mg Tab	2	25	00615-0450-47	Vanguard
Lorazepam 1mg Tab	2	25	00615-0451-13	Vanguard
Lorazepam 1mg Tab	2	25	51079-0386-20	UDL
Lorazepam 1mg Tablet	2	25	00182-1807-89	Goldline
Lorazepam 2mg Tablet	2	25	51079-0387-20	UDL
Lorazepam 2mg Tablet	2	25	00182-1808-89	Goldline
Lorcet Plus Tab (7.5/650mg)	10	20	00785-1122-63	UAD
Lorezepam 2mg Tab	none		53269-092-80	Halsey
Lortab 7.5mg Tab	10	20	50474-0907-25	Whitby
Lortab 7.5mg Tab	13	20	50474-0907-25	Whitby
Lortab-5 Tab	10	20	50474-0902-60	Whitby
Lortab-5 Tab	13	20	50474-0902-60	Whitby
Meperidine 50mg Tab	9	35	00008-0308-03	Wyeth
Meperidine 50mg Tab	9	35	00054-8595-24	Roxane
Methadone 10mg Tab	9	35	00054-8554-24	Roxane
Methadone 5mg Tab	9	35	00054-8553-24	Roxane
Morphine SR 30mg (Oramorph)	9	35	00054-8805-24	Roxane
MS Contin 15mg Tab	12	25	00034-0514-25	Knoll
MS Contin 30mg Tab	12	25	00034-0515-25	Knoll
MS Contin 60mg Tab	12	25	00034-0516-25	Knoll
Nembutal 100mg Cap	6	20	00074-3114-21	Abbott
Noctec 500mg Cap	10	20	00003-0626-52	Squibb
Oxazepam 15mg Cap	6	20	51079-0478-21	UDL
Oxycodone 5mg (Roxicodone)	9	35	00054-8657-24	Roxane
Oxycodone w/APAP (Roxicet)	11	25	00054-8650-24	Roxane
Percocet (w/large blister)	11	25	00590-0127-25	DuPont
Percodan (w/large blister)	11	25	00590-0135-25	DuPont
Phenaphen w/Codeine #3 Cap	10	20	00031-6257-61	Robins

Table D-3. OmniDispenser Oral Solid Medication to DIspenser/Cassette Listing (Continued)

Oral Solid Medication Name	Dispenser #	Dose Qty	NDC #	Mfg
Phenobarbital 100mg Tab	2	25	0005408707-25	Roxane
Phenobarbital 15mg Tab	2	25	00054-8703-25	Roxane
Phenobarbital 30mg Tab	2	25	51079-0095-21	UDL
Phenobarbital 30mg Tab	2	25	00054-8705-25	Roxane
Phenobarbital 30mg Tab	2	25	00615-0421-47	Vanguard
Phenobarbital 30mg Tab	9	35	00008-0268-04	Wyeth
Phenobarbital 60mg Tab	2	25	00054-8708-25	Roxane
Phenobarbital 60mg Tab	2	25	51709-207-20	UDL
Propoxyphene HCL 65mg Cap	none		00781-2140-13	Geneva
Propoxyphene HCL 65mg Cap	6	20	00054-8732-25	Roxane
Propoxyphene-N 100mg	6	20	000615-0439-13	Vanguard
Propoxyphene-N 100mg w/APAP	6	20	51079-322-20	UDL
Propoxyphene-N 100mg w/APAP	6	20	0615-0455-47	Vanguard
Propoxyphene-N 100mg w/APAP	10	20	00182-0817-89	Goldline
Propoxyphene-N 50mg w/APAP	6	20	51079-650-20	UDL
ProSom (Estazolam) 1mg Tab	2	25	00074-3735-11	Abbott
Restoril 15mg Cap	6	20	00078-0098-06	Sandoz
Restoril 15mg Cap	6	20	00078-0098-13	Sandoz
Restoril 30mg Cap	5	20	00078-0099-06	Sandoz
Restoril 30mg Cap	6	20	00078-0099-13	Sandoz
Roxicet Tab	11	25	00054-8650-24	Roxane
Seconal 100mg Cap	6	20	00002-0640-33	Lily
Serax 10mg Cap Redipak	5	40	00008-0051-01	Wyeth
Serax 15mg Cap Redipak	5	40	00008-0006-01	Wyeth
Talacen Tab	10	20	00024-1937-14	Winthrop
Talwin NX Tab	4	25	00024-1951-24	Winthrop
Temapepam 15mg Cap	6	20	00182-1822-89	Goldline
Temapepam 15mg Cap	6	20	00615-0470-47	Vanguard
Temapepam 15mg Cap	6	20	51079-418-20	UDL
Temazepam 30mg Cap	6	20	00182-1823-89	Goldline
Tranxene-T 3.75mg Tab	none		00074-4389-11	Abbott
Triazolam 0.125mg Tablet	11	25	00781-1441-13	Geneva
Triazolam 0.25mg Tablet	11	25	00781-1442-13	Geneva
Tylox Cap	8	20	00045-0526-79	McNeil
Valium 10mg Tab	2 w/ 8 insert	25	0140-0006-50	Roche
Valium 2mg Tab	2 w/ 8 insert	25	0140-0004-50	Roche
Valium 5mg Tab	2 w/ 8 insert	25	0140-0005-50	Roche
Vicodin Tab	13	20	00044-0727-41	Knoll

Table D-3. OmniDispenser Oral Solid Medication to DIspenser/Cassette Listing (Continued)

Oral Solid Medication Name	Dispenser #	Dose Qty	NDC #	Mfg
Wygesic	6	20	00008-0085-04	Wyeth
Xanax 0.25mg Tab	3	35	00009-0029-09	Upjohn
Xanax 0.25mg Tab	12	25	00009-0029-20	Upjohn
Xanax 0.25mg Tab (BC pkg)	11	25	00009-0029-46	Upjohn
Xanax 0.5mg Tab	3	25	00009-0055-02	Upjohn
Xanax 0.5mg Tab	12	35	00009-0055-22	Upjohn
Xanax 0.5mg Tab (BC pkg)	11	25	00009-0055-46	Upjohn
Xanax 1mg Tab (BC pkg)	11	25	00009-0090-46	Upjohn

Table D-3. OmniDispenser Oral Solid Medication to DIspenser/Cassette Listing (Continued)

Injectable Medication

Injectable Medication Name	Type	Dispenser #	Dose Qty	NDC #	Mfg
Alfenta 500mcg/ml, 2mL	Amp	14-8117	24	50458-0060-02	Janssen
Alfenta 500mcg/ml, 5mL	Amp	2M8664	12	50458-0060-05	Janssen
Astromorph 0.5mg/ml	Amp	14-8116	24	0186-1159-03	Astra
Astromorph 1mg/ml	Amp	14-8116	24	0186-1160-03	Astra
Buprenex 0.3mg/ml	Amp	14-8116	24	0149-0757-01	Norwich
Codeine 30 mg (2mL)	Syr	None	N/A	N/A	Abbott
Codeine 30mg/ml	Vial	14-8100	18	0641-0100-25	ESI
Codeine 60 mg (2mL)	Syr	None	N/A	N/A	Abbott
Codeine 60mg/ml	Vial	14-8100	18	0641-0110-25	ESI
Dalgan 10mg/ml	Vial	14-8100	18	0189-1521-13	Astra
Dalgan 15mg/ml	Vial	14-8100	18	0189-1520-13	Astra
Dalgan 5mg/ml	Vial	14-8100	18	0189-1520-13	Astra
Demerol 50mg/ml	Amp	14-8116	24	0074-1178-01	Abbott
Demerol 75mg/ml	Amp	14-8116	24	0074-1179-01	Abbott
Demerol 100mg/ml	Amp	14-8116	24	0074-1180-01	Abbott
Demerol 25ml/ml	Amp	14-8116	24	0074-1176-01	Abbott
Demerol 50mg/ml, 2mL	Amp	14-8117	24	0074-1255-02	Abbott
Diazepam 10 mg (2mL)	Syr	None	N/A	N/A	Abbott
Diazepam 5mg/ml	Vial	14-8100	18	0641-0371-25	ESI
Diazepam 5mg/ml	Vial	14-8100	18	0641-0369-25	ESI
Diazepam 5mg/ml, 2mL	Amp	14-8117	24	0641-1408-35	ESI
Dilaudid-HP 10mg/ml, 5mL	Amp	2M8664	12	0044-1017-15	Knoll
Dolophine 10mg/ml	Amp	14-8116	24	0002-1687-12	Lily
Fentanyl 0.05mg/ml, 2mL	Amp	14-8117	24	0074-9093-02	Abbott

Table D-4. OmniDispenser Injectable Medication to DIspenser/Cassette Listing

Injectable Medication Name	Type	Dispenser #	Dose Qty	NDC #	Mfg
Fentanyl 0.05mg/ml, 2mL	Amp	14-8117	24	0641-1116-33	ESI
Fentanyl 0.05mg/ml, 5mL	Amp	2M8664	12	0074-9093-05	Abbott
Fentanyl 0.05mg/ml, 5mL	Amp	2M8664	12	0641-1117-33	ESI
Fentanyl 100 mcg (2mL)	Syr	None	N/A	N/A	Abbott
Fentanyl 250 mcg (5mL)	Syr	None	N/A	N/A	Abbott
Hydromorphone 1 mg (1in2mL)	Syr	None	N/A	N/A	Abbott
Hydromorphone 2 mg (1in2mL)	Syr	14-8027	25	0074-1312-02	Abbott
Hydromorphone 2 mg (1in2mL) LLK	Syr	14-8027	25	0074-1312-30	Abbott
Hydromorphone 4 mg (1in2mL)	Syr	None	N/A	N/A	Abbott
Inapsine 2.5mg/ml	Amp	None	N/A	50548-0010-01	Janssen
Inapsine 2.5mg/ml, 2mL	Amp	14-8117	24	50548-0010-02	Janssen
Innovar, 2mL	Amp	14-8117	24	50548-0020-02	Janssen
Ketalar 100mg/ml	Vial	2M8651	6	00071-4585-08	Parke-Davis
Levo-Dromoran 2mg/ml	Amp	14-8116	24	0004-1910-06	Roche
Lorazepam 2 mg (1in2mL) LLK	Syr	14-8027	25	0074-1985-30	Abbott
Lorazepam 4 mg (1in2mL)	Syr	None	N/A	N/A	Abbott
Meperidine 50mg/ml	Amp	14-8116	24	0641-0130-35	ESI
Meperidine 75mg/ml	Amp	14-8116	24	0641-0140-35	ESI
Meperidine 100 mg (2mL)	Syr	14-8027	25	0074-1180-02	Abbott
Meperidine 100 mg (2mL) LLK	Syr	14-8027	25	0074-1180-02	Abbott
Meperidine 100mg/ml	Amp	14-8116	24	0641-0150-35	ESI
Meperidine 100mg/ml	Vial	14-8100	18	0641-0160-25	ESI
Meperidine 25 mg (2mL)	Syr	14-8027	25	0074-1176-08	Abbott
Meperidine 25 mg (2mL) LLK	Syr	14-8027	25	0074-1176-30	Abbott
Meperidine 25mg/ml	Vial	14-8100	18	0641-0130-25	ESI
Meperidine 50 mg (2mL)	Syr	14-8027	25	0074-1178-02	Abbott
Meperidine 50 mg (2mL) LLK	Syr	14-8027	25	0074-1176-30	Abbott
Meperidine 50mg/ml	Vial	14-8100	18	0641-0140-25	ESI
Meperidine 75 mg (2mL)	Syr	14-8027	25	0074-1179-02	Abbott
Meperidine 75 mg (2mL) LLK	Syr	14-8027	25	0074-1179-30	Abbott
Meperidine 75mg/ml	Vial	14-8100	18	0641-0150-25	ESI
Morphine 10 mg (1in2mL)	Syr	14-8027	25	0074-1261-02	Abbott
Morphine 10 mg (1in2mL) LLK	Syr	14-8027	25	0074-1261-30	Abbott
Morphine 10mg/ml	Amp	14-8116	24	0641-1180-35	ESI
Morphine 10mg/ml	Vial	14-8100	18	0641-0180-25	ESI
Morphine 15 mg (1in2mL)	Syr	None	N/A	N/A	Abbott
Morphine 15 mg (1in2mL) LLK	Syr	None	N/A	N/A	Abbott
Morphine 15mg/ml	Vial	14-8100	18	0641-0190-25	ESI

Table D-4. OmniDispenser Injectable Medication to DIspenser/Cassette Listing (Continued)

Injectable Medication Name	Type	Dispenser #	Dose Qty	NDC #	Mfg
Morphine 2 mg (1in2mL)	Syr	14-8027	25	0074-1262-02	Abbott
Morphine 2 mg (1in2mL) LLK	Syr	14-8027	25	0074-1262-30	Abbott
Morphine 4 mg (1in2mL)	Syr	14-8027	25	0074-1258-02	Abbott
Morphine 4 mg (1in2mL) LLK	Syr	14-8027	25	0074-1258-30	Abbott
Morphine 4mg/ml	Vial	14-8100	18	0641-0168-25	ESI
Morphine 8 mg (1in2mL)	Syr	None	N/A	N/A	Abbott
Morphine 8 mg (1in2mL) LLK	Syr	None	N/A	N/A	Abbott
Morphine 8mg/ml	Vial	14-8100	18	0641-0170-25	ESI
Nalbuphine 10mg/ml	Vial	14-8100	18	0469-2080-00	Lyphomed
Narcan 0.4mg/ml	Amp	14-8116	24	0590-0358-10	DuPont
Nembutal 50mg/ml, 2mL	Amp	14-8117	24	0074 -6899-04	Abbott
Nubain 10mg/ml	Amp	14-8116	24	0590-0395-10	DuPont
Nubain 20mg/ml	Amp	14-8116	24	0590-0398-10	DuPont
Numorphan 1mg/ml	Amp	14-8116	24	0590-0370-10	DuPont
Phenobarbital 130mg/ml	Vial	14-8100	18	0641-0480-25	ESI
Phenobarbital 65mg/ml	Vial	14-8100	18	0641-0480-25	ESI
Stadol 1mg/ml	Vial	14-8100	18	00015-5645-20	Bristol
Stadol 2mg/ml	Vial	14-8100	18	00015-5646-20	Bristol
Stadol 2mg/ml	Vial	14-8100	18	00015-5644-20	Bristol
Sublimaze 0.05mg/ml, 2mL	Amp	14-8117	24	50458-0050-02	Janssen
Sublimaze 0.05mg/ml, 5mL	Amp	2M8664	12	50458-0050-05	Janssen
Sufenta 50mcg/ml	Amp	None	N/A	50458-0050-01	Janssen
Sufenta 50mcg/ml, 2mL	Amp	14-8117	24	50458-0030-02	Janssen
Sufenta 50mcg/ml, 5mL	Amp	2M8664	12	50458-0030-05	Janssen
Talwin 30mg/ml	Amp	14-8116	24	0074-1957-01	Abbott
Tigan 100mg/ml	Amp	14-8116	24	0029-4085-22	Beecham
Valium 5mg/ml	Amp	14-8116	24	0140-1931-06	Roche
Versed 1mg/ml	Vial	2M8651	6	0004-1999-01	Roche
Versed 1mg/ml	Vial	14-8100	18	0004-1998-06	Roche
Versed 5mg/ml	Vial	14-8100	18	0004-1973-01	Roche
Versed 5mg/ml	Vial	14-8100	18	0004-1974-01	Roche

Table D-4. OmniDispenser Injectable Medication to DIspenser/Cassette Listing (Continued)

Non-Narcotic Medication

Non-Narcotic Medication Name	Pkg Type/ Size	Dispenser #	NDC #	Mfg
Acetaminophen 325 mg Tablet		#6 (20)		Roxane
Acetaminophen 650mg/2 Tablets	200 UD	#6 (20)	00045-0497-85	McNeil
Adalat 10 mg Capsule	100 UD	#6 (20)	00026-8811-48	Miles
Adenocard 6mg/2ml	2 ml vial	14-8100 (18)	57317-0232-10	Fujisawa
Ambien 10 mg Tab		#9 (35)		
Amoxicillin 250 mg Capsule	100 UD	#6 (20)	00015-7278-66	Apothecon
Ampicillin 500 mg Capsule	100 UD	#10 (20)	00015-7993-66	Apothecon
Aspirin 325 mg Tablet (2/pack)	100 UD	#6 (20)	51079-0005-22	UDL
Aspirin EC 325 mg Tablet	100 UD	#6 (20)	00574-0002-11	Paddock
Aspirin EC 325 mg Tablet	100 UD	#2 (25)	51079-0018-20	UDL
Aspirin EC 325 mg Tablet	100 UD	#6 (20)	00245-0157-01	UpsherSmith
Atropine 0.4mg/ml	1 ml vial	14-8100 (18)	00641-0320-25	ESI
Bethanechol 25 mg Tablet	100 UD	#1 (35)	51079-0123-01	UDL
Bisacodyl 5 mg Tablet	100 UD	#1 (35)	00182-8534-00	Goldline
Bisacodyl 5 mg Tablet	100 UD	#1 (35)	00574-0004-11	Paddock
Brethine 5 mg Tablet	100 UD	#1 (35)	00028-0105-61	Geigy
Buprenex 0.3 mg/ml	1 ml vial	2M8662 (20)	00149-0757-01	Norwich
Capoten 12.5 mg Tablet	100 UD	#3 (35)	00003-0450-51	Squibb
Carbamazepine 200 mg Tablet	100 UD	#2 (25)	51079-0385-20	UDL
Cardizem 30 mg Tablet	100 UD	#9 (35)	00088-1771-49	Marion
Ceclor 500 mg Capsule	100 UD	#10 (20)	00002-3062-33	Lily
Cephalexin 500 mg Capsule	100 UD	#10 (20)	51079-0607-20	UDL
Chlorpromazine 25 mg Tablet	100 UD	#2 (25)	51079-0519-20	UDL
Chlorzoxazone 500 mg Tablet	100 UD	#6 (20)	51079-0476-20	UDL
Cipro 500 mg Tablet	100 UD	#6 (20)	00002-8513-48	Miles
Clonidine 0.1 mg Tablet	100 UD	#1 (35)	51079-0299-20	UDL
Coumadin 2.5 mg Tablet	100 UD	#12 (25)	00056-0176-75	DuPont
Cyclobenzaprine 10 mg	100 UD	#1 (35)	00364-2348-90	Schein
Dalgan 10 mg/ml	1 ml vial	14-8100 (18)	00189-1521-13	Astra
Dalgan 15 mg/ml	1 ml vial	14-8100 (18)	00189-1520-13	Astra
Dalgan 5 mg/ml	1 ml vial	14-8100 (18)	00189-1520-13	Astra
Dilantin 100 mg Capsule	100 UD	#6 (20)	00071-0362-40	Parke-Davis
Dilaudid-HP 10 mg/ml	5 ml amp	2M8664 (12)	00044-1017-15	Knoll
Diphenhydramine 25 mg Capsule	100 UD	#6 (20)	51079-0065-20	UDL
Diphenhydramine 50 mg Capsule	100 UD	#6 (20)	51079-0066-20	UDL
Diphenhydramine 50mg/ml	1 ml vial	14-8100 (18)	00641-0376-25	ESI

Table D-5. OmniDispenser Non-Narcotic Medication to DIspenser/Cassette Listing

Non-Narcotic Medication Name	Pkg Type/ Size	Dispenser #	NDC #	Mfg
Dipyridamole 25 mg Tablet	100 UD	#5 (40)	00781-1890-13	Geneva
Droperidol 2.5 mg/ml	2 ml vial	14-8100 (18)	00517-9702-10	Am.Regent
Droperidol 2.5 mg/ml	2 ml vial	14-8100 (18)	00186-1226-13	Astra
Droperidol 2.5 mg/ml	2 ml vial	14-8100 (18)	00469-2260-10	Lyphomed
Duricef 500 mg Capsule	100 UD	#10 (20)	00087-0784-44	MeadJohnson
Ephedrine 50mg/ml	1 ml vial	14-8100 (18)	51079-0705-01	UDL/BVL
Ephedrine 50mg/ml	1 ml vial	14-8100 (18)	00702-0875-01	VHA Plus
Ferrous Sulfate 324 mg Tabletl	100 UD	#1 (35)	00054-0608-11	Roxane
Furosemide 10mg/ml	2 ml vial	14-8100 (18)		Am.Regent
Furosemide 10mg/ml	4 ml vial	2M8651 (6)	00517-5704-25	Am.Regent
Furosemide 20 mg Tablet	100 UD	#1 (35)	00054-8297-25	Roxane
Furosemide 40 mg Tablet	100 UD	#1 (35)	00054-8299-25	Roxane
Gentamicin 20mg/2ml	2 ml vial	14-8100 (18)	00641-0394-25	ESI
Gentamicin 80mg/2ml	2 ml vial	14-8100 (18)	00641-0395-25	ESI
Glycopyrrolate 0.2 mg/ml	2 ml vial	14-8100 (18)		ESI
Glycopyrrolate 0.2 mg/ml	1 ml vial	14-8100 (18)	00469-3400-00	Lyphomed
Haloperidol 1 mg Tablet	100 UD	#1 (35)	00054-8343-25	Roxane
Haloperidol 5mg/ml	1 ml vial	14-8100 (18)	39769-0088-02	Solopak
Heparin 10,000 units	1 ml vial	14-8100 (18)	00641-0410-25	ESI
Heparin Flush 10 units	1 ml vial	14-8100 (18)	39769-0018-02	Solopak
Heparin Flush 100 units/ml	5 ml vial	2M8651 (6)	39769-0011-05	Solopak
Hydroxyzine HCl 25 mg/ml	1 ml vial	14-8100 (18)	00469-2100-00	Lyphomed
Hydroxyzine HCl 50 mg/ml	1 ml vial	14-8100 (18)	00517-5601-01	Am.Regent
Hydroxyzine HCl 50 mg/ml	1 ml vial	14-8100 (18)	00641-0422-01	ESI
Hydroxyzine HCl 50 mg/ml	1 ml vial	14-8100 (18)	00469-2100-00	Lyphomed
Hydroxyzine HCl 50 mg/ml	1 ml vial	14-8100 (18)	39769-0024-02	Solopak
Hydroxyzine Pamoate 25mg Cap	100 UD	#2 (25)	51079-0077-20	UDL
Ibuprofen 400 mg Tablet	100 UD	#6 (20)	51079-0281-20	UDL
Ibuprofen 800 mg Tablet	100 UD	#10 stretched	00182-1297-89	Goldline
Inapsine 2.5 mg/ml	2 ml amp	14-8100 (18)	50548-0010-02	Janssen
Indomethacin 25 mg Capsule	100 UD	#6 (20)	51079-0190-20	UDL
Innovar	2 ml amp	14-8100 (18)	50548-0020-02	Janssen
Isoptin 80 mg Tablet	100 UD	#2 (25)	00044-1822-10	Knoll
Isordil 10 mg Tablet	100 UD	#1 (35)	00008-4153-05	Wyeth
K-Dur 10 mEq Tablet	100 UD	#8 (20)	00085-0263-81	Key
K-Dur 20 mEq Tablet	100 UD	#8 (20)	00085-0787-81	Key
Ketalar 100 mg/ml	5 ml vial	2M8651 (6)	00071-4585-08	Parke-Davis
Lanoxin 0.25 mg Tablet	100 UD	#1 (35)	00081-0249-56	B-W

Table D-5. OmniDispenser Non-Narcotic Medication to DIspenser/Cassette Listing (Continued)

Non-Narcotic Medication Name	Pkg Type/ Size	Dispenser #	NDC #	Mfg
Lopressor 50 mg Tablet	100 UD	#2 (25)	00028-0051-61	Geigy
Meclizine 12.5 mg Tablet	100 UD	#2 (25)	51079-0089-20	UDL
Meclizine 25 mg Tablet	100 UD	#2 (25)	51079-0090-20	UDL
Methergine 0.2 mg Tablet	100 UD	#1 (35)	00078-0054-05	Sandoz
Nalbuphine 10 mg/ml	1 ml vial	14-8100 (18)	00469-2080-00	Lyphomed
Naprosyn 250 mg Tablet	100 UD	#2 (25)	18393-0272-53	Syntex (P.R.)
Narcan 0.4mg/ml	1 ml amp	2M8661 (19)	00590-0358-10	DuPont
Narcan 1 mg/ml	2 ml amp	2M8663 (17)	00590-0377-10	DuPont
Nifedipine 10 mg Capsule	100 UD	#6 (20)	00182-1547-89	Goldline
Pitocin 10 units/0.5ml	1 ml vial	14-8100 (18)	00071-4200-45	Parke-Davis
Pitocin 10 units/ml	1 ml vial	14-8100 (18)	00071-4160-45	Parke-Davis
Pitocin 20 units/ml	1 ml vial	14-8100 (18)	00071-4200-46	Parke-Davis
Prednisone 10 mg Tablet	100 UD	#1 or #2	00054-8725-25	Roxane
Procainamide 500mg/ml	2 ml vial	14-8100 (18)	39769-0004-02	Solopak
Procan-SR 250 mg Tablet	100 UD	#6 (20)	00071-0202-40	Parke-Davis
Procardia 10 mg Capsule	100 UD	#6 (20)	00069-2600-41	Pfizer
Prochlorperazine 5 mg/ml	2 ml vial	14-8100 (18)	39769-0076-02	Solopak
Promethazine 25 mg/ml	1 ml amp	14-8100 (18)	0641-1495-35	ESI
Propranolol 10 mg Tablet	100 UD	#1 (35)	00054-8758-75	Roxane
Propranolol 40 mg Tablet	100 UD	#1 (35)	00054-8760-75	Roxane
Simethicone 80 mg Tablet	100 UD	#10 (20)	00182-8643-00	Goldline
Stadol 1 mg/ml	1 ml vial	14-8100 (18)	00015-5645-20	Bristol
Stadol 2 mg/ml	2 ml vial	14-8100 (18)	00015-5644-20	Bristol
Stadol 2 mg/ml	1 ml vial	14-8100 (18)	00015-5646-20	Bristol
Tagamet 300 mg Tablet	100 UD	#2 (25)	00108-5013-21	BeechamSK
Tagamet 300 mg/2ml	2 ml vial	14-8100 (18)	00108-5017-11	SKB
Tagamet 400 mg Tablet	100 UD	#2 (25)	00108-5026-21	BeechamSK
Tetracycline 250 mg Capsule	100 UD	#6 (20)	00182-0112-90	Goldline
Theo-Dur 200 mg Tablet	100 UD	#8 (20)	00085-0933-81	Key
Theo-Dur 300 mg Tablet	100 UD	#8 (20)	00085-0584-81	Key
Thiethylperazine Maleate 10 mg Tablet (Torecan)	100 UD	#11 (25)	00054-8748-25	Roxane
Tigan 100 mg/ml	2 ml amp	2M8663 (17)	00029-4085-22	Beecham
Toradol 10 mg Tablet	100 UD	#2 (25)	00033-2435-53	Syntex
Torecan 10 mg Tablet	100 UD	#11 (25)	00054-8748-25	Roxane
Tylenol 650mg/2 Tablets	200 UD	#6(20)	00045-0497-85	McNeil
Valium 5 mg/ml	2 ml amp	2M8663 (17)	00140-1931-06	Roche
Verapamil 5mg/2ml	2 ml vial	14-8100 (18)	00074-1144-01	Abbott

Table D-5. OmniDispenser Non-Narcotic Medication to DIspenser/Cassette Listing (Continued)

Appendix E: Part List

Link back to the procedure that calls out the given part using the cross reference in the **Where Used** column.

Part #	Part Name	Agile Description	Where Used
12-8009 12-8010	OmniDispenser module (ODM)	OPTION,KIT,OMNIDISPENSER,TALL OPTION,KIT,OMNIDISPENSER,RX	Overview
14-8017	rail assembly (rail frame, fixed rails)	MFG,ASSY,RAIL,OMNIDISPENSER RX1	Replacing the Rail Assembly
14-8022 14-8026 14-8028 14-8029 14-8032 14-8033	dispenser	5ML,AMPULE DISPENSER OMNIDISPENSER DISPENSER SMALL,CASSETTE OMNIDISPENSER DISPENSER DOUBLE,DISPENSER OMNIDISPENSER DISPENSER ATC/1ML/2ML OMNIDISPENSER DISPENSER,SLIMPAK,G2,OMNIDISPENSER KIT,DISPENSER,5ML VIAL,KICKOUT,OMNIDISPENSER	Installing Dispensers
14-8024	rail rail divider	MFG,ASSY,RAIL,DIVIDER OMNIDISOMNIDISPENSER	Install a Rail Replacing/Adding/Removing Rails
14-8025	dispense drawer	MFG,ASSY,DISPENSER,DRAWER OMNIDISPENSER	Replacing the Dispense Drawer
14-8029	ATC/1ML/2ML dispenser	DISPENSER ATC/1ML/2ML OMNIDISPENSER	Adjusting Dispensers
14-8100 14-8101 14-8102 14-8103 14-8104 14-8105 14-8106 14-8107 14-8108 14-8109 14-8110 14-8111 14-8112 14-8113 14-8115 14-8116	cassette	CASSETTE, DISPENSER, 1-2ML VIAL, MFG ASSY CASSETTE, ORAL SOLID #1, MFG ASSY CASSETTE, ORAL SOLID #2, MFG ASSY CASSETTE, ORAL SOLID #3, MFG ASSY CASSETTE, ORAL SOLID #4, MFG ASSY CASSETTE, ORAL SOLID #5, MFG ASSY CASSETTE, ORAL SOLID #6, MFG ASSY CASSETTE, ORAL SOLID #7, MFG ASSY CASSETTE, ORAL SOLID #8, MFG ASSY CASSETTE, ORAL SOLID #9, MFG ASSY CASSETTE, ORAL SOLID #10, MFG ASSY CASSETTE, ORAL SOLID #11, MFG ASSY CASSETTE, ORAL SOLID #12, MFG ASSY CASSETTE, ORAL SOLID #13, MFG ASSY CASSETTE, CANADIAN—VIAL, MFG ASSY CASSETTE, 1ML, AMPULE, MFG ASSY	Loading Dispensers

Table E-1. Mobile cart Service Part List

Part #	Part Name	Agile Description	Where Used
14-8117	cassette	CASSETTE, 2ML, AMPULE, MFG ASSY	Loading Dispensers
14-8118		CASSETTE, DISPENSER, 1ML Vial, MFG ASSY	
14-8120		CASSETTE, ATC SYSTEM OS 200, MFG ASSY	
14-8121		CASSETTE, ATC SYSTEM OS 250, MFG ASSY	
14-8122		CASSETTE, ATC SYSTEM OS 300, MFG ASSY	
14-8123		CASSETTE, STRIP PACK 200, MFG ASSY	
14-8124		CASSETTE, STRIP PACK 250, MFG ASSY	
14-8125		CASSETTE, STRIP PACK 300, MFG ASSY	
15-8015	top crossbar	MFG,ASSY,TOP,CROSS,BAR,OMNIRX,OMNIDISPENSER	Replacing the Top Crossbar
15-8021		MFG,ASSY,TOP,CROSS,BAR OMNISUPPLIER,OMNIDISPENSER	
15-8019	restock door	MFG,ASSY,RESTOCK,DOOR OMNIDISPENSER	Replacing the Restock Door
40-8008	carrier controller board	PCBA,CARRIER,CONTROLLER,OMNIDI	Replacing the Carrier Controller Board
42-8039	drawer cable	CABLE,ASSY,DISPENSE,DWR OMNIDISPENSER	Replacing the Dispense Drawer Cable
42-8040	rail cable	CABLE,ASSY,RAIL,OMNIDISPENSER	Replacing the Rail Cable
53-8055	rail conector cover plate	COVER DIVIDER,CUTOUT OMNIDISPENSER	Install a Rail
53-8120	door release bracket	BRACKET,IR,SENSOR TOP CROSS,BAR,OMNIDISPENSER	Remove the Top Cross Bar
65-8024	labels	LABEL,OMNIDISPENSER SMALL,CASSETTE	Labeling Dispensers
65-8034		LABEL, DISPENSER, 5ML VIAL, KICKOUT, OMNIDISPENSER	
91-8012	trunnion bars	ASSEMBLY,TRUNNION,BAR,LEFT OMNIDISPENSER	Remove the Restock Door
91-8013		ASSEMBLY,TRUNNION,BAR,RIGHT OMNIDISPENSER	
94-6133	8-32 button-head screws	SCREW,BH,TORX,8-32,X,1/4,SS	Remove the Drawer Cable
94-6137	6-32 button-head screw	SCREW,BH,TORX,6-32,X,3/16,SS	Remove the Rail Assembly
94-6151	8-32 flat-head screws	SCREW,FH,TORX,8-32,X,1/4,SS T15 (left side)	Remove the Restock Door
94-6181		SCREW,FH,TORX,8-32,X,3/8,SS NYLON,PATCH (right side)	Remove the Drawer Cable Remove the Top Cross Bar
94-6162	6-32 flat-head screws	SCREW,FH,TORX,6-32,X,3/16,100,DEG,C'SINK	Remove the Rail Assembly Remove the Restock Door
94-6164	8-32 button-head screw	SCREW,BH,TORX,8-32,X,1/8,SS	Remove Rails (B-E)
94-6233	4-40 flat-head screws	SCREW,FH,TORX,4-40,X,3/16 PATCH,SS,UNDERCUT	Remove the Drawer Cable
94-6182	6-32 truss-head screw	SCREW,TRUSS,HD,TORX,6-32,X 1/8,SS	Remove the Top Cross Bar
94-6283	3/8 hex nuts	NUT,ACORN	Remove the Top Cross Bar

Table E-1. Mobile cart Service Part List

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Feedback Form

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