



**High Capacity UDM Solids Dispenser Double
Position Installation Guide**

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For use when configuring a UDM solids dispensing
position to be a double dispensing position

Document History

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1. Installing the UDM Double Dispense Position Upgrade Kit

1.1 Description

This kit is used to modify a Unit Dose Module Solids Dispenser shelf to allow it to dispense medications wider than allowed with the standard position. The purpose of the kit is to combine adjacent positions and have them operate as a single unit. The kit may support capacities of 12, 18, or 24 items per helix. Refer to Table 1 for a list of the kit's contents.

NOTE

Please refer to hospital service procedures and guidelines as stated in the Service and Installation Guide.

Table 1 Contents of the Double Dispense Position Upgrade Kit

Kit Number 19-040180			
-000A	-000B	-000C	DESCRIPTION
1			24 Capacity Helix, Right Hand
1			24 Capacity Helix, Left Hand (yellow)
	1		18 Capacity Helix, Right Hand
	1		18 Capacity Helix, Left Hand (yellow)
		1	12 Capacity Helix, Right Hand
		1	12 Capacity Helix, Left Hand (yellow)
2	2	2	Connector Jumper
2	2	2	Helix Guide
1	1	1	Double Position Permanent Divider
1	1	1	Retainer Clamp Bracket
1	1	1	#6 x .25 Self Tapping Screw

1.2 Tools Required

The following tools are needed to perform this upgrade.

1. #2 Phillips Head Screwdriver
2. #1 Phillips Head Screwdriver (used only to reposition the motor and the index switch to the large 1.4" OD helix position)
3. Needle nose pliers

1.3 Reference Documentation

The reference documentation associated with this kit is listed in Table 2.

Table 2 Reference Documentation

Description	Part No.
Installation Guide	TM-MEDINS-000A
Service Guide	TM-MEDSVC-000A

1.4 Configuration Evaluation

This kit allows two adjacent solids dispense positions to be combined into a single dispense unit. Use Table 3 to determine the appropriate setup. The examples that follow use the last two positions.

Table 3 Configuration Setup Information

Configuration Style	Med Width (in)	Med Width (mm)
SHDP Style 1	1.5"-1.8"	38mm-46mm
SHDP Style 2	1.8"-2.5"	46mm-63mm
DHDP	2.3"-3.0"	58mm-76mm

1.5 Description of Shelf Indicator Points

The Solids Dispenser Shelf is labeled with indicator points that show the mounting location of the single and double permanent dividers and plastic length guides. Figure 1 defines these points.

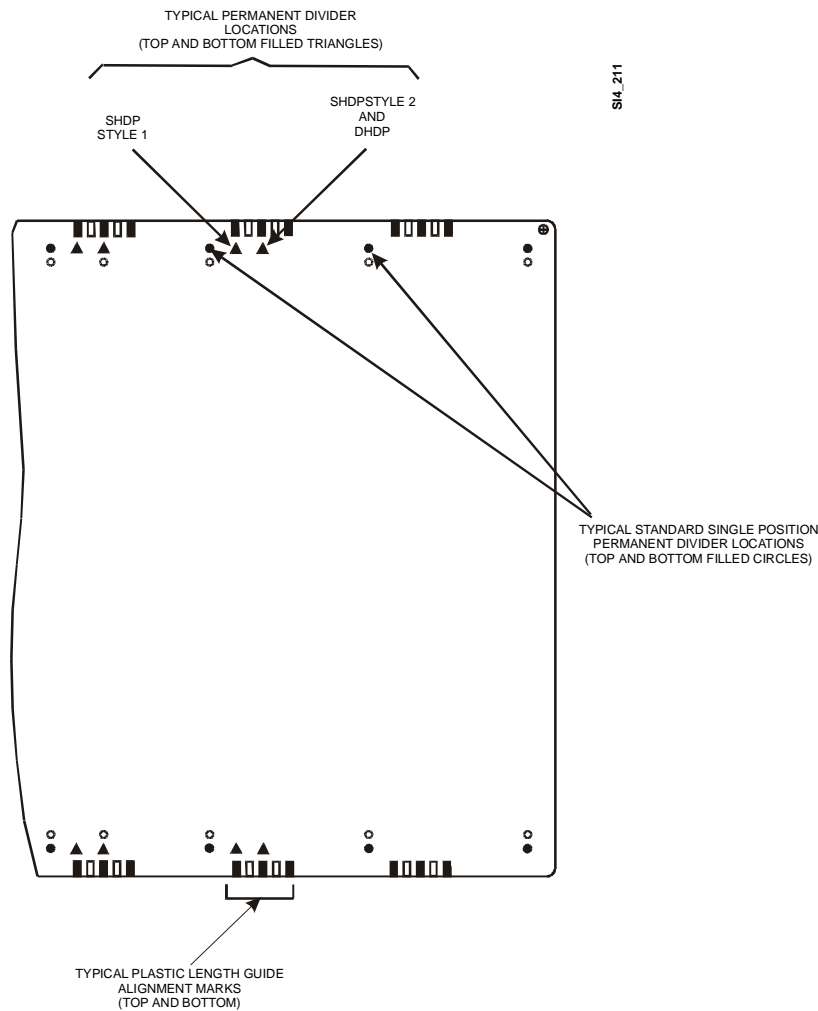


Figure 1 Solids Dispenser Shelf Indicator Points

1.6 Combining Adjacent Oral Dispensing Positions

Figure 2 shows the parts that you should be familiar with when upgrading a single dispensing position. As previously mentioned, the last two positions are used as an example.

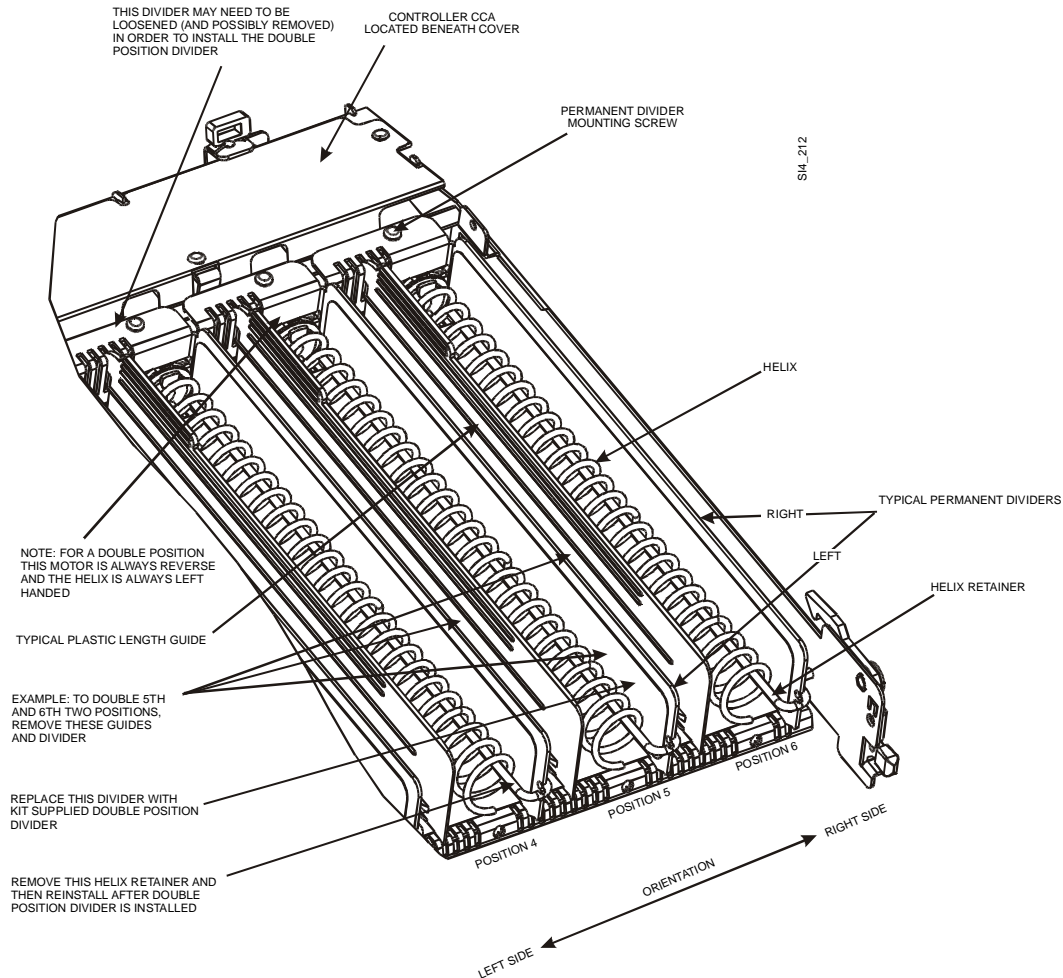


Figure 2 Factory Installed Standard Solids Dispensing Position

It is necessary to remove Permanent Dividers from the combined positions. The adjacent left position always requires a kit-supplied Double Position Permanent Divider. The drive motors of the two combined positions do not need to be unmounted unless they are mounted in the low or 1.0" helix diameter position. *All combined positions use the 1.4" OD helix.*

NOTE

In the following text, the two adjacent dispense positions are referenced as left and right as observed from the top and front of the shelf (see Figure 2 for orientation).

Proceed as follows to combine two adjacent positions, then proceed to the desired specific configuration setup (SHDP Style 1, SHDP Style 2, or DHDP):

NOTE

The Helix for both the left and right positions are removed for all setup configurations.

1. Remove the Helix Retainers from the Permanent Dividers associated with the double position. Additionally, remove the helix retainer from the position immediately to the left of the dual position location (if present). The retainer is usually tight and requires some force to remove.
2. Remove the Plastic Length Guides from the two positions. This is accomplished by grasping the top rear tab, and then lifting this end straight up. The front of the divider is hooked into a front slot of the shelf.
3. Remove the existing Helix from the left and right positions (5th and 6th positions of this example).
4. Remove the Permanent Divider from between the two positions. The Helix Retainer was previously removed in Step 1. The divider is secured in place by a phillips head screw at the rear of the position. The front of the divider is hooked into a front slot of the shelf base.
5. Remove any Helix Guides that may be used in the two positions. Depending on the setup configuration, these guides may be used again. However, guides are included with the kit.
6. Make sure that both motors are mounted in the high position to accommodate the 1.4 diameter helix.
7. Reverse the direction of rotation of the left position (5th position in this example) drive motor by connecting its cable to the reverse motor polarity socket on the controller CCA. The controller CCA provides forward and reverse drive sockets for each drive motor. For example, the CCA socket J1 is used for the forward direction, and J2 is used for reverse.

NOTE

The left side drive motor is always configured for counterclockwise rotation with a left hand wound helix. This forces the med packages against the left permanent divider rather than the less sturdy plastic length guide. The left position motor is used to drive the meds since it is nearer to the center of the double positions.

1.6.1 Configuration Setup For SHDP Style 1

Follow these steps to set up a Single Helix, Double Position configuration to support meds that are no wider than 1.8 inches:

1. Install the kit provided Double Position Permanent Divider using the left mounting hole in the divider (see Figure 3 for orientation). The divider replaces the left adjacent position (5th position in this example) divider previously removed. The divider hooks into the front slot first. Filled in triangles are provided on the label to assist in aligning up the ends of the divider. Align the divider over the right-most colored triangles of the right position and at each end of the position. The divider is forced over these triangles when mounted correctly using the left mounting hole.

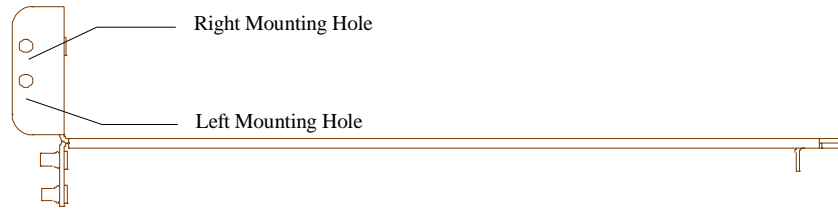


Figure 3 Permanent Divider Mounting Holes

2. Replace the left Helix (just removed) with a left hand wound Helix as provided with the kit. This Helix has a yellow color code.
3. Insert the Helix Retainer. The top set of holes are for the 1.4" diameter helix.
4. Install the helix and divider jumpers onto the controller CCA above the right dispense position motor (6th position in this example) and above the previously removed right Permanent Divider.
5. Install the Plastic Length Guide to the right of the yellow Helix, setting it to the appropriate med width, by hooking the front into the base and then snapping in the back tab.
6. Use the CCA test buttons to manually test the position so that the index point is established. Adjust the Plastic Length Guide as necessary.

1.6.2 Configuration Setup For SHDP Style 2

Follow these steps to set up a Single Helix, Double Position configuration to support meds that are between 1.8 and 2.5 inches wide:

1. Attach the Retainer Clamp Bracket to the kit supplied Double Position Permanent Divider using the #6 x .25 Self Tapping Screw. Note: the alignment post on the divider goes through the Retainer Clamp Bracket (see Figure 4).

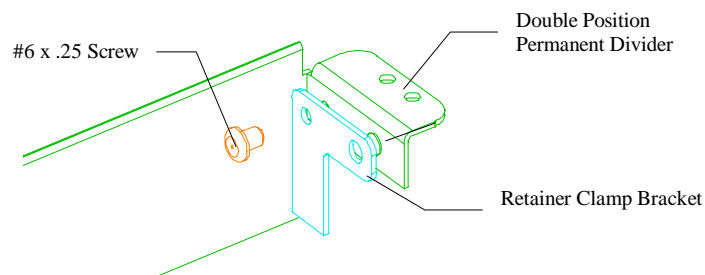


Figure 4 Attaching a Retainer Clamp Bracket to the Double Position Permanent Divider

2. Position the Helix Guide as shown in Figure 5. Loosen the Permanent Divider on the right and slip the Helix Guide under it. The Helix Guide aligns with a slot in the divider.

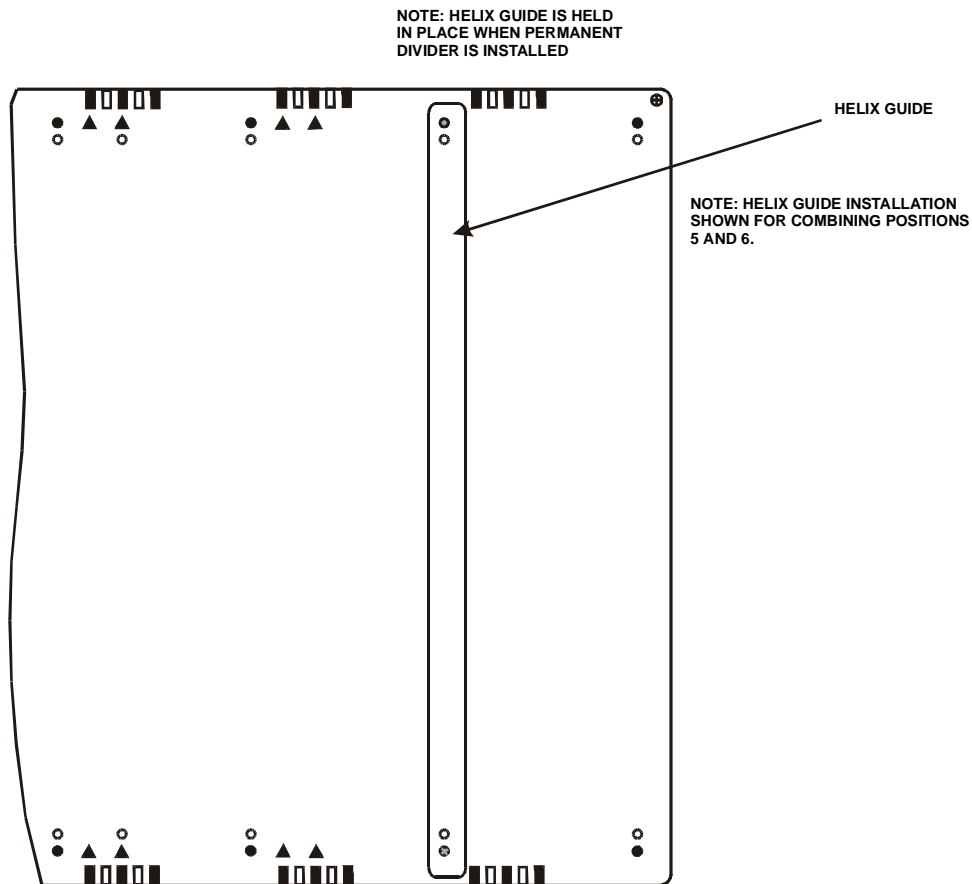


Figure 5 Positioning the Helix Guide

3. Install the kit supplied Double Position Permanent Divider (with Retainer Clamp Bracket attached) using the right mounting hole in the divider (see Figure 3 for orientation). The divider replaces the left adjacent position (5th position in this example) divider previously removed. The divider hooks into the front slot first. Filled in triangles are provided on the label to assist in aligning up the ends of the divider. Align the divider over the left-most colored triangles at each end of the position. The divider is placed over these triangles when mounted correctly using the right mounting hole.
4. Replace the left Helix (just removed) with a left hand wound Helix as provided with the kit. This Helix has a yellow color code.
5. Install the helix and divider jumpers onto the controller CCA above the right dispense position motor (6th position in this example) and above the previously removed right Permanent Divider.
6. Install the Plastic Length Guide to the right of the yellow Helix, setting it to the appropriate med width, by hooking the front into the base and then snapping in the back tab.

7. Use the CCA test buttons to manually test the position so that the index point is established. Adjust the Plastic Length Guide as necessary.

1.6.3 Configuration Setup For DHDP

Follow these steps to set up a Double Helix, Double Position configuration to support meds that are between 2.3 and 3.0 inches wide:

1. Install the kit provided Double Position Permanent Divider using the left mounting hole in the divider (see Figure 3). The divider replaces the left adjacent position (5th position in this example) divider previously removed. The divider hooks into the front slot first. Filled in triangles are provided on the label to assist in aligning up the ends of the divider. Align the divider over the right-most colored triangles at each end of the position. The divider is placed over these triangles when mounted correctly using the left mounting hole.
2. Replace the left Helix (just removed) with a left hand wound Helix as provided with the kit. This helix has a yellow color code.
3. Replace the right Helix with the kit supplied right hand wound Helix.
4. Install one Permanent Divider Jumper above the previously removed center Permanent Divider. This jumper installation indicates to the system that both motors must be driven simultaneously.
5. Insert all Helix Retainers. The top set of holes are for the 1.4" diameter helix.
6. Use the CCA test buttons to manually test the position so that the index point is established.