

Product Pusher Installation

X008.0

Models: DN 2145 Venders serialized 0001-8000BW and higher.
DN 2045 and 2145 venders with tall gates built prior to 0001-8000BW.

Reason: To provide parts to improve getting product in the vending gate and to the customer.

Recommendations:

- The product pusher only works with tall gates.
- Product pushers will not work with packages over 2.7" in diameter.
- Product pushers are not used with glass packages.
- Product pushers should only be used with Delrin Slides.
- Replace existing kicker springs.

Parts Needed Per Column: Kit - 622,000,400.14

9 - 622,070,50x.x3	Product Pusher Assembly (1 per column)
9 - D107	Kicker Spring (1 per column)
1 - X008.x	Product Pusher Field Test Installation Instructions

Other Parts You May Need:

1 - 801,812,01x.x1	Slide (Delrin) (1 as needed per column on venders prior to 0001-8000BW)
1 - W216-1	Gate Pin, Rear Knuckle (1 as needed per column)
1 - W216-7	Gate Pin, Rear Shuttle (1 as needed per column)
1 - 801,701,09x.x1	Delivery Port Spring (1 per vender, all models)

IMPORTANT NOTES:

- Delrin slides 801,812,01X.X1 are only needed for venders prior to 0001-8000BW.
- Gate pin W216-7 is only needed if you damage the existing rear shuttle pin in the gate when installing the new kicker spring.
- Gate pin W216-1 is only needed if you damage the existing rear knuckle pin in the gate when installing the new kicker spring, or if the existing gate assembly does not have a kicker spring.

Recommended Installation:

1. On venders prior to 0001-8000BW install Delrin slide 801,812,01x.x1.
2. On venders prior to 0001-8017BX replace the kicker spring using instructions on page 2.
3. Install product pusher assembly using instructions on pages 3 and 4.

Kicker Spring (D107) Installation:

1. Remove product from the tray to be upgraded.
2. Remove the rear shuttle pin (see 1, figure 1). When removing pin, use caution not to bend pin. If pin is bent the gate will not operate correctly. Replace bent pin with W216-7.
3. Remove the rear knuckle pin (see 2, figure 1). If there is no existing kicker spring, discard the pin. When removing pin, use caution not to bend pin. If pin is bent the gate will not operate correctly. Replace bent pin with W216-1.
4. Align the new kicker spring (see 4, figure 2), rear knuckle pin (see 3, figure 2), and rear shuttle pin (see 1, figure 2) as shown in figure 2 below.

IMPORTANT: The rear part of the kicker spring should be placed between the top of the rear shuttle and the frame of the gate.

5. Replace the rear shuttle pin in the gate, passing it through the kicker spring.
IMPORTANT: Use caution not to bend the horizontal pin (see 5, figure 2).
6. Replace the rear knuckle pin in the gate, passing it through the kicker spring.
IMPORTANT: Use caution not to bend the horizontal pin (see 5, figure 2).
7. When you have completed the installation, the front end of the product pusher spring should be pointed down and resting against the side of the gate when the column is empty.

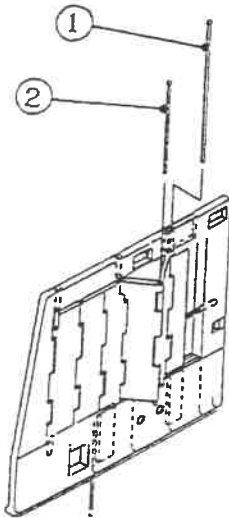


Figure 1

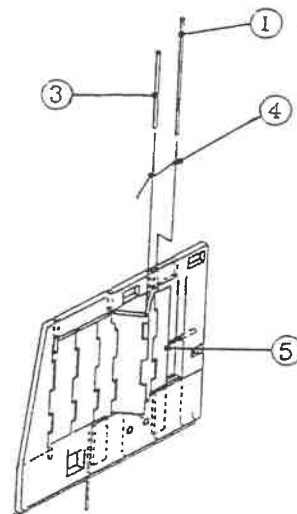


Figure 2

Product Pusher Assembly (622,070,50x.x3) Installation:

- 1) Remove all product from the column in which you will be installing the product pusher assembly.
- 2) The product pusher assembly attaches to the middle and lower horizontal rods of the wire tray. (See figure 3.)
 - A) Install the product pusher by aligning the top and bottom grooved edges of the product pusher with the middle and lower horizontal rods of the wire tray. Snap the product pusher into position.
IMPORTANT: Ensure the product pusher is fully engaged on the middle and lower horizontal rods from front to back.
- 3) Check product pusher assembly for proper operation and secure installation.

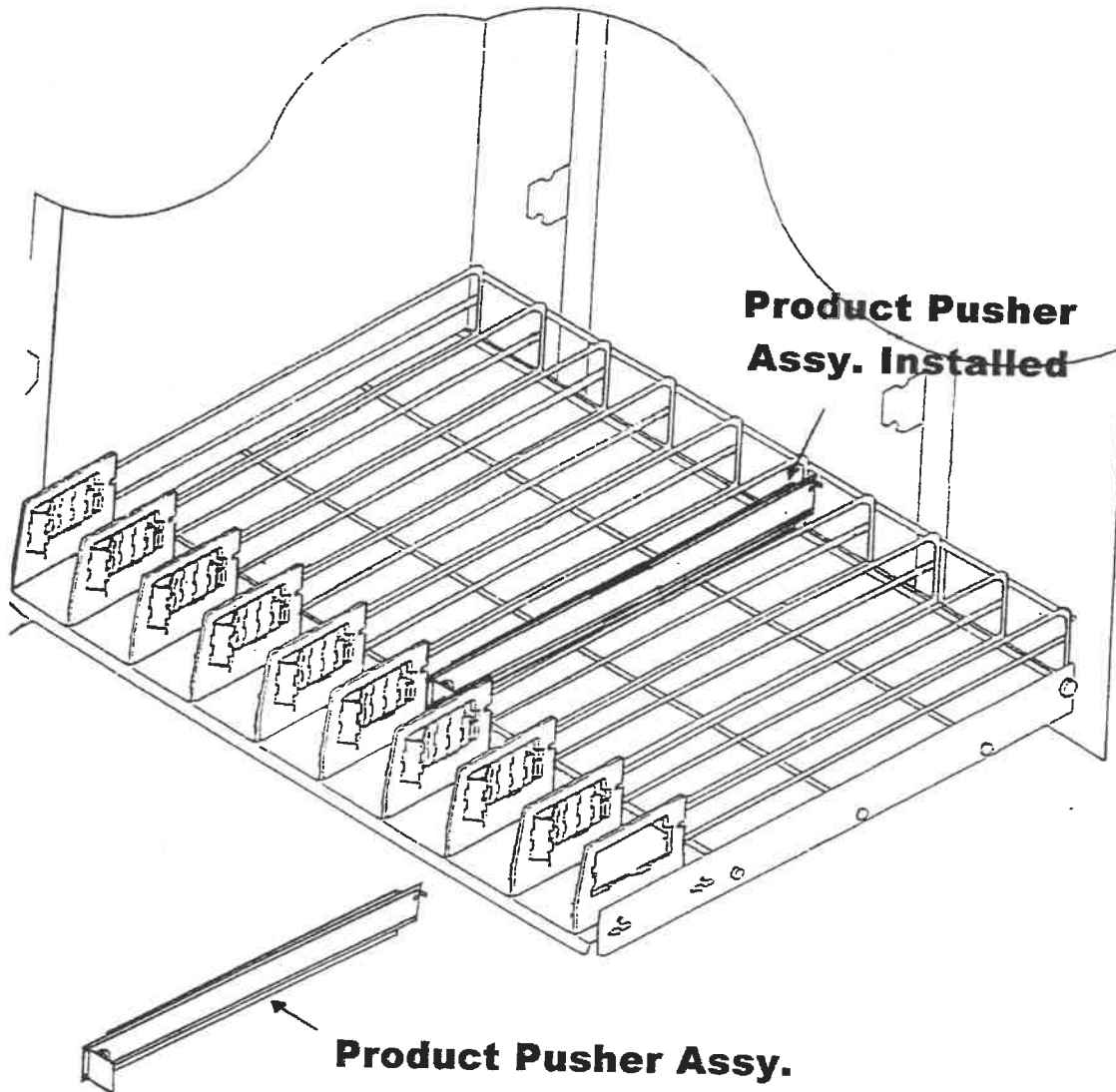


Figure 3

Note: Tray assembly is shown without slide for detail purposes only.

Delivery Door Spring (801,701,09x.x1) Installation:
(Not included in kit.)

1. Delivery door spring is needed if the magnet to metal plate no longer works or is no longer in place.

IMPORTANT: SHOULD NOT BE USED IF MAGNET TO METAL IS IN USE.

2. Remove the recovery unit assembly from the vender.
3. Locate the hollow end of the delivery door rod on the right end of the recovery unit (See "C", figure 5).
4. From the center of the delivery door rod, measure .480" (approximately 1/2") and draw a vertical line. (See "A", figure 5).
5. From the top edge of the recovery unit above the line drawn in step 4, measure .19" (approximately 3/16") and draw a horizontal line that is perpendicular (intersects) the line drawn in step 4. (See "B", figure 5).
6. Drill a .125" (1/4") hole where these lines intersect.
7. Insert the spring end "A" (see figure 6) in the hollow end of the delivery door rod.
8. Rotate the spring clockwise until the spring catches and will no longer rotate. Then turn clockwise two full turns, ensuring the spring remains engaged for tension purposes.
9. Hook the spring end "B" (see figure 6) up over the top edge of the recovery unit and in the hole drilled in step 5.
10. Test the delivery door for proper operation.

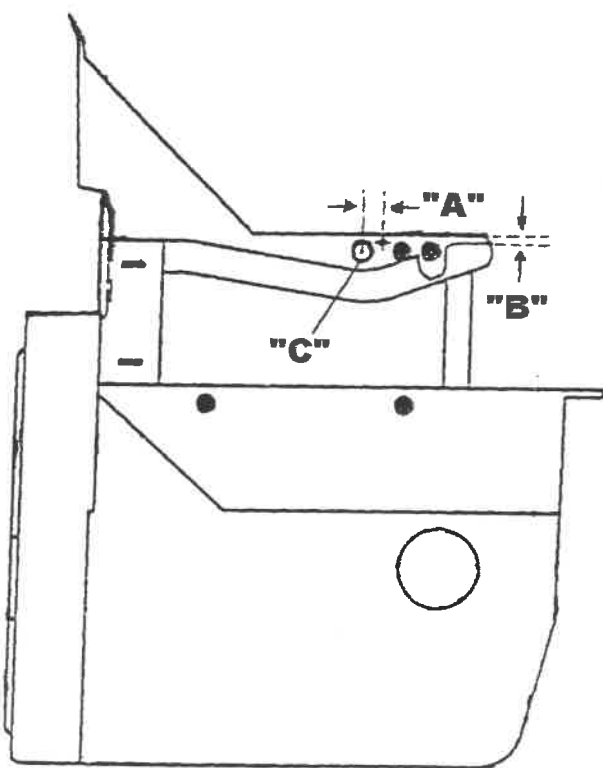


Figure 5

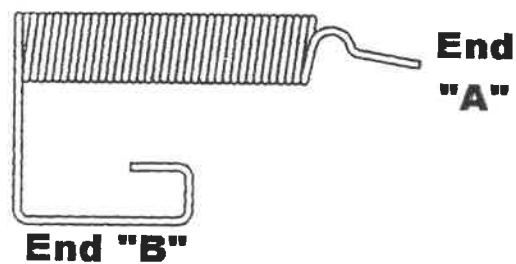


Figure 6

DN2145 PACKAGE SET-UP

Dixie-Narco is presently testing and qualifying package set-ups for the DN2145 serialized 0001-8000AW and higher.

Until testing is completed, Dixie-Narco recommends using the set-up guidelines provided from ECC (prior to Dixie-Narco's purchase of ECC's assets and patents).

Listed are the maximum dimensions that can be vended from the DN2145.

- Maximum package height for tall gates (A and B trays) is 8.25".
- Maximum package height for tall gates (C, D, and E trays) is 9".
- Maximum package diameter for tall gates (all trays) is 2.8".

ECC provided Dixie-Narco with the following information prior to the buy-out.

- | | |
|----------------|--|
| • W212-1 or -2 | used for 16.9 oz. PET Bottles |
| • W212-1 | used for 12 oz. Cans. |
| • W212-7 | specialty (includes square bottles) |
| • None | 20 oz. PET Bottles and 16 oz. NR Glass Bottles |

Attached is further information provided to Dixie-Narco by ECC prior to the buy-out.

ECC SB97001 JAN 2, 1997
ECC Vending Corp.
Customer Service Bulletin

PLAN-O-GRAM

This is meant to serve as a basic guide for loading product in your 2054 or BeverageMax 5 Tray, 20 oz. cold beverage machines. Please understand that this is just a suggested guideline. There are so many different products on the market now that it is impossible for us to sit here in Orlando and tell you what tray and/or column to vend your specific product from.

- Tropicana 20 oz. glass bottle – bottom 3 trays
- 16 oz. glass bottles – any tray
- Veryfine products in plastic containers – do not vend from columns 1 or 9
(hang-ups / mis-vends have occurred)
- Pepsi and Coke products in 20 oz. contoured bottles – bottom 3 trays
- Mystic 20 oz. bottles – bottom 3 trays
- Canned products, non-carbonated – any tray, using a #1 spacer
- Canned products, carbonated – bottom 3 trays, using a #1 spacer
- Non-carbonated water in plastic containers – any tray, Perrier bottles may require a #1 spacer, most others require a #2 spacer
- Yoo-Hoo 15.5 glass bottles – any tray; smaller bottles – bottom 3 trays
(there have been instances of the cap/neck breaking off the smaller bottles when vended from top 2 trays)
- Juices in 10 oz. containers – any tray, most require a #2 spacer.
- Limit carbonated products to the bottom three trays, diet carbonated products to the bottom 2 trays
- IBC products – bottom tray only
(the cap will come off if vended from any other tray)

Pay close attention to the product's center of gravity. Taller products, such as Coke Classic Bottle or the 20 oz. Pepsi Slam, cannot be vended from "short gate" trays. The higher center of gravity will cause them to tip over the top of the gate. Also pay close attention to how the machine is restocked. For example, if a column has been set up to vend 10 oz. juice bottles with a #2 spacer, it cannot be refilled with 12 oz. cans without first changing spacers.

There are still problems with the Arizona Iced Tea in 20 oz. glass bottles and the 20 oz. straight sided bottles (refer to SB008 of December 5, 1996).

The above suggestions are based on testing here in Orlando and lessons learned from our customers. Although we are working hard to accommodate your needs, our machine will not yet vend every product on the market.

Regional products are sometimes bottled and/or canned in unique shapes and sizes. It is strongly recommended your unique products be tested in the machine before any large quantities are purchased. If, during testing of any unique product, you feel there is a problem with it vending, please feel free to contact us to arrange a test of your product here in the factory. We will be glad to evaluate your product in our machine to see what, if anything, may be done to provide you with problem free vending.

20 oz. Tall Gate Slide Installation

