



Field Service

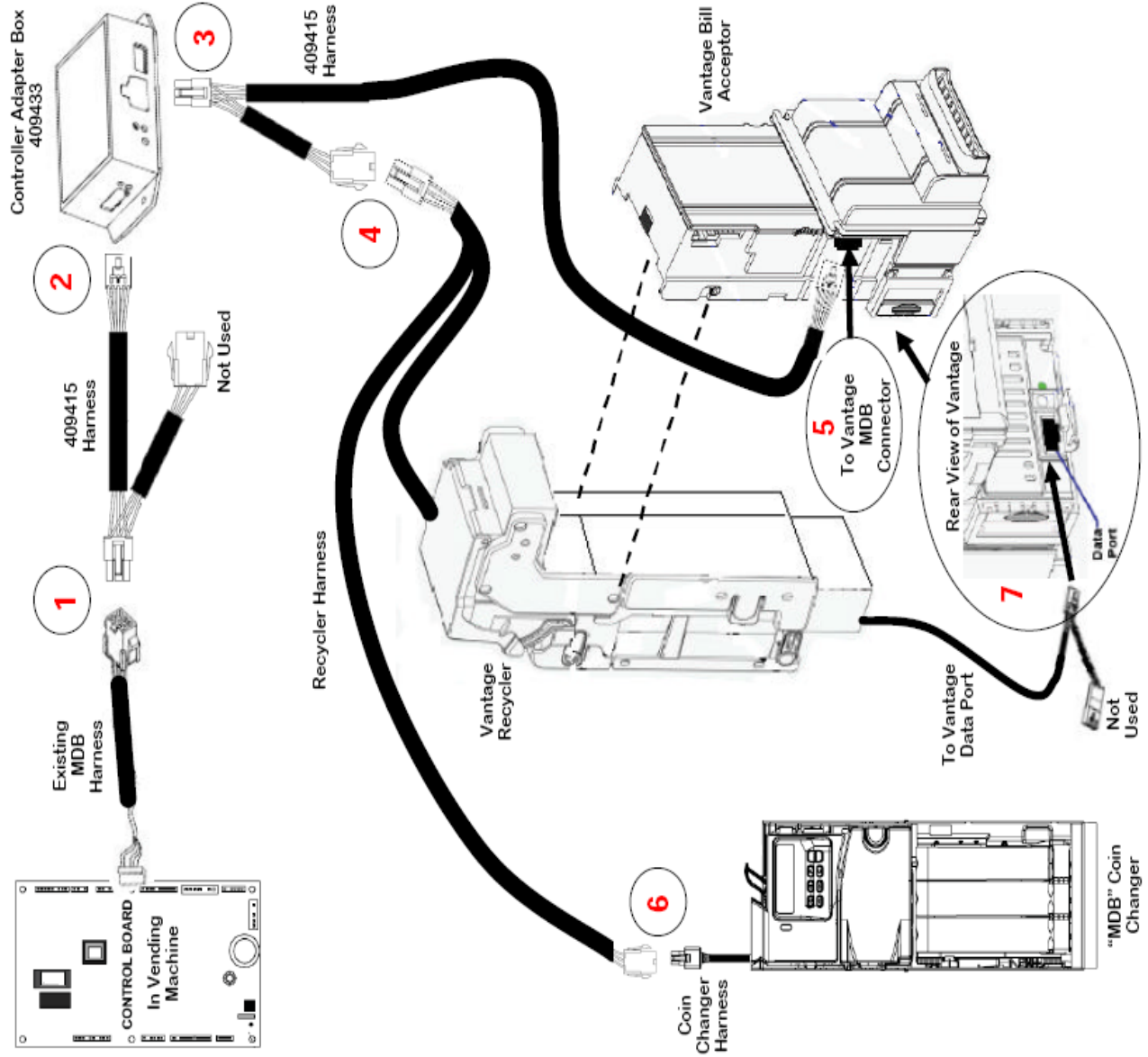
Vantage Recycler Connections, Installation and Setup



Vantage/Recycler "Wire Harness" Connections

7 connections total
Cables and pictures shown
are not to scale

Last Rev. 06-18-10



Notes



CA# 409432
1 ft. MDB Extension

MDB Extension harness comes
with the 409433 Controller
Adapter Box (use only if needed)

IMPORTANT



If you are using a Credit Card
Reader with the Recycler, the
Card Reader Controller **MUST BE**
connected to the MDB connector
at Connection 1 before the
Controller Adapter Box.

DO NOT connect the Card Reader
after the "Controller Adapter Box"

Vantage Recycler Installation Instructions

1. Disconnect power from the machine.
2. Remove the existing MDB bill acceptor and harnesses.
3. Determine if there is enough room to install a Vantage Recycler in your machine. If there is not enough depth or height, the Vantage recycler can not be installed or you will need to modify the machine for the needed clearance.

For Vantages with a “B” style bezel (mask)

- The depth from the bill acceptor mounting surface to the back of the cabinet or inner door must be at least 6 inches.
- The height from the top mounting studs for the bill acceptor must be at least 6½ inches.

For Vantages with an “R” or “S” style bezel (mask)

- The depth from the bill acceptor mounting surface to the back of the cabinet or inner door must be at least 6 and 3/4 inches.
- The height from the top mounting studs for the bill acceptor must be at least 8¼ inches.

4. The Vantage Recycler is made up of 5 components:
 - Bill Inlet Bezel
 - Vantage Bill Acceptor
 - Vantage Recycler Unit
 - Vantage Recycler Bill Box
 - Controller Adapter Box (409433)

These components are easily removed to simplify the installation process.

5. Remove the Bill Inlet Bezel from the Vantage bill acceptor and fasten the Bezel to the machine.
6. Remove the bill box from the Recycler unit.
7. Remove the Recycler from the Vantage bill acceptor.
8. Connect the Vantage MDB harness (409415) black connector to the MDB port on the side of the Vantage bill acceptor.

9. Install the Vantage bill acceptor onto the Bill Inlet Bezel. Align the bill acceptor with the bezel and push the bill acceptor body into the bezel until it locks in place. Be sure that both sides are locked into place.

10. Attach the Vantage Recycler module to the Vantage bill acceptor.

11. Connect the Recycler's MDB harness first to the coin changer, **6** then to the Vantage bill acceptor's MDB harness. **4**

12. Connect the Recycler's 4-pin male Data harness to the Vantage bill acceptor's data port.

7 The 4-pin female Data harness connector is not used.

13. Install the Recycler's bill box.

14. In most machines, (*not using MDB Specification Level 4*), the use of a controller adapter box (409433) is required to allow the machine to correctly communicate to the bill recycler.

Connect the male MDB connector from the Vantage bill acceptor to the Controller

Adapter Box. **3**

15. Connect the black plug of the MDB adapter box harness 409415 to the Adapter Box end labeled "Machine Controller Connection". **2**

16. Install the Adapter Box in the machine using the supplied Velcro strip.

17. Connect the MDB harness from the machine to the Adapter Box MDB Harness. **1**

NOTE: The output of the Controller Adapter Box labeled "Currency Systems Connection" should ONLY be connected to the coin changer, bill acceptor, and recycler. If your machine has other MDB devices such as Card Readers, they must be connected to the machine's MDB harness BEFORE connecting to the "Controller Adapter Box".

18. Once all harness connections are made, use tie wraps to dress-up and secure the MDB wires from moving parts in the machine. Be sure cables and connectors will not get pinched when the door is closed.

19. Apply power to the machine.

Setup After Installation and Programming the Recycler

1. After installation, power up machine. The following will happen:
 - The Recycler will stack.
 - The Recycler Status LED is green.
 - The Vantage Status LED is green.
 - The two digit display will show how many bills are in the recycler bill box. “00” will be displayed on a new unit indicating there are no bills in the Recycler.
 - The bill acceptor inlet will begin to flash.
 - The bill acceptor “Smart Bezel” will display bills that are currently being accepted.
 - If using the “Controller Adapter Box”, the red power LED should be ON solid. The Controller Adapter Box also has two sets of green and yellow LED’s to indicate two way communication between the vending machine, Bill Acceptor, Recycler, and the Coin Changer. These green and yellow LED’s should be constantly blinking.
2. There are 3 red push button switches on the Recycler used for programming, testing, and

filling bills to be recycled.



Using these buttons (called user interface), run through the “Menu Options” below. Be sure to set the “**BR**” to “**01**” if you want \$1 bills to be paid out or “**05**” if you want \$5 bills to be paid out. This will determine which bills are stacked in the Recycler cashbox..

Recycler “Menu Options”

D1 – Dispense

Dispenses one recycled bill at a time.

AF – Auto Fill

Allows preloading of bills into the Recycler without creating a machine credit.

FL – Float Level

Allows user to set how many bills (max) will be allowed in the recycler bill box.

Bills can be set from 0–30. Default is 30. If set to “0”, no bills will be recycled.

BR – Bills Recycled (for Pay Out)

01 = \$1 bills will be paid out 05 = \$5 bills will be paid out

CL – Changer Lock-Out

If the Recycler bills is lower than the minimum number bills set, the high denomination bills will be disabled. (The “Smart Bezel” will indicate this by lighting the “\$1’s Only” LED). This preserves coins in the changer by preventing large paybacks. To accept high denomination bills, make sure the bills are enabled on the Vantage and that you have available equal or more bills than what is set by the “CL”. The scroll button will cycle between 1 and 20 bills. If the setting remains at “0”, then high denomination bills will be accepted as normal as long as there are sufficient coins in the coin changer.

DC – Dispense Counter

Number of bills paid out. The “Dispense Counter” value is divided into two parts due to only having 2 digits available. Look at the example shown below:

Example: (\$109) 109 bills has been paid out from the Recycler.

| | | |
|------|-------------------------|----------|
| “DC” | (Dispense Counter) | [ENTER] |
| “01” | (high side of the 0109) | [SCROLL] |
| “09” | (low side of the 0109) | [SCROLL] |
| “DN” | (Done) | |

[SCROLL will take you to the next Menu Item]
[ENTER will clear the “0109” to “0000”]

The “Dispense Counter” WILL NOT subtract bills that are dispensed through the “D1” dispense mode.

3. The “**Smart Bezel**” located on front of the Vantage bill acceptor tells the customer which bills can be accepted. If the left LED is ON then the unit is only accepting \$1 bills because it can only make change for a \$1 bill. If the right LED is ON then the unit is accepting \$1’s and \$5’s because change can be made for them.
 - You must have coins in the changer before any bills are accepted.
 - Make sure the Vantage has the \$1 and \$5 dollar bills enabled.

NOTE: If you have to enable the \$5 or make any other Option changes on the Vantage bill acceptor, make sure the Recycler “Data Port” connector remains attached to the bill acceptor when you make these changes.

Miscellaneous Notes

- The Recycler works on Vantage VX or VL models in MDB mode only.
- The Recycler “Controller Adapter” CA# 409433 must be used in all machines that **IS NOT** compliant with MDB/ICP Spec Version 4 or higher.
- The Recycler bill box capacity is 30 bills.
- A Card Reader must be installed on the machine MDB side, not the Controller Adapter Box side.
- The Vantage Inlet LED’s will flash when you are in the “Auto-Fill” mode so bills will not accumulate credit.
- The Vantage and Recycler will not enable unless the changer has coins.
- For proper operation, **DO NOT** manually pre-load bills in the Recycler bill box. **ALL** Recycler bills must be loaded through the bill inlet.



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