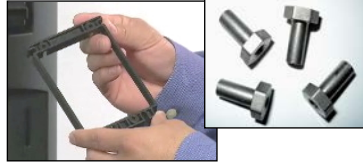![MEI cashflow vnr logo]

VN2700R Installation DO's...

- Make sure power to the vending machine is **OFF**.
- Make sure bezel mounts flush. Use set-back spacer if necessary.
- Make sure all DIP switches are in the **OFF** position if using the Configuration Coupon to configure the VN2700R.
- Make sure cabling does not interfere with the mechanical operation of the VN2700R. Use cable ties when possible.
- Make sure there is adequate clearance around the VN2700R when all doors are closed.
- Make sure the VN2700R recycler cable with the yellow flag marked COINMECH ONLY is attached to the coin changer only. NO OTHER ITEMS CAN BE CONNECTED BETWEEN THE VN2700R AND THE COIN MECHANISM.
- Make sure to attach the green, ground wire, (if provided), to a mounting stud and secure with the appropriately-sized nut.
- Check MEI **Recycler Compatibility Chart** on the web site. If the software on the VMC is not up to date, update to the latest version that is listed on the compatibility chart. Visit www.meitechnical.com. Select Documentation, then VN2700R. You can also scan this barcode into your phone and you'll be directed right to MEI's website:
- Hand-tighten only the installation nuts.
- Only use a 500-bill cassette or smaller with the VN2700R unless there is adequate space for larger cassettes.
- If cables are routed under the recycler module, make sure there is adequate slack in the cable to avoid stress to the 30-pin connector.
- The Recycler may not touch any cable and must be mounted within 0° of plumb. Nuts may be added to the mounting screws to create a gap behind the Recycler to keep it vertical.

Mounting and Clearance

- After mounting the recycler, slide your hand underneath to make sure there are no items making contact with the recycler - such as the lower mounting studs, coin chutes or coin return hardware.
- Only use Set Back Spacer if needed. It could cause interference with the cold door. Set Back Spacer must be used with the four extender nuts provided with the Recycler if mounting studs on the machine are not long enough.
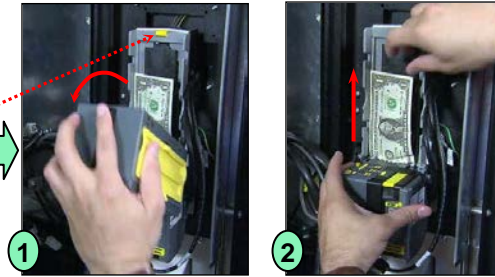
Bezel Requirements

- Approved bezel types: (VFM, HVB, Compact, 3-in-1, 4-in-1 and Combo bezels only). If the metal bezel is used, it needs to be grounded to the VNR by scraping off some of the paint on the bezel to ensure a positive ground to the bezel.
- **H**igh **V**isibility **B**ezels *(Compact and VFM styles)* – Require software version **1.17** or greater. If the first three serial numbers on the bill validator are **489xxxxxxxx** or higher, software version is OK. If not, use BPM-Lite to update your validator.
- Bezel must be mounted flush against the machine door. It must be mounted absolutely vertical with no tilt and 0° of plumb.

Clearing Jams

VN2700R

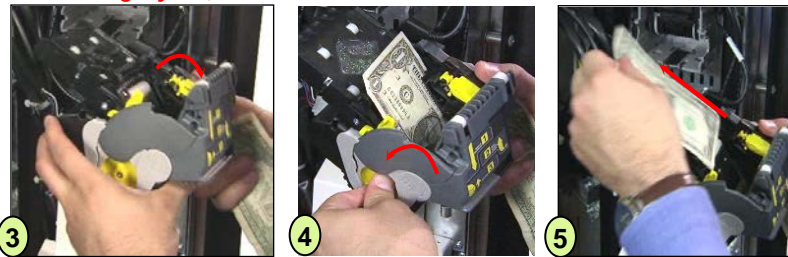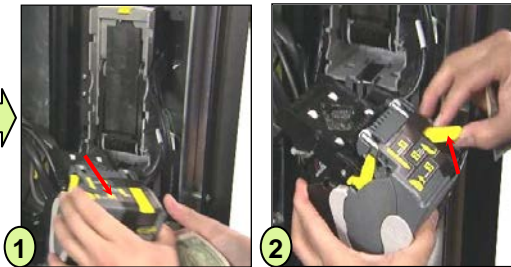### Things to look for…

To remove a Jammed Bill from the **Cassette**:

- PUSH yellow tab forward
- LIFT Cassette UP
- Remove the Jammed Bill

- Remove bills from the drum until you see a "space" between the bills. Normally, this is between two and five bills. Also, do a visual inspection for any dirt and debris that may have caused the jam.
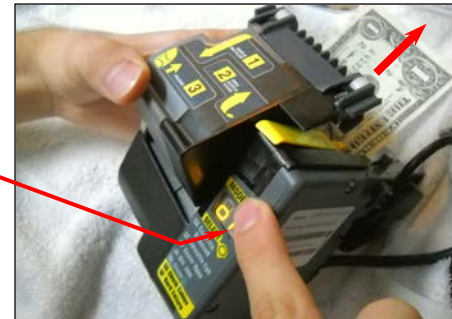
1" to 1.5"

This shows how to manually clear a Bill Jam from the Recycler.
(Make sure to feed out between two and five bills when clearing a jam.)

You can also clear a Bill Jam by pressing and holding down the "MODE" Button.
(Make sure to feed out between two and five bills when clearing a jam.)

Diagnostics

Er Error Codes

Pressing the **Select** button while the error codes *JA*, *CC*, & *HF* are displayed will reveal more detailed error codes. Each additional press will display another error if available.
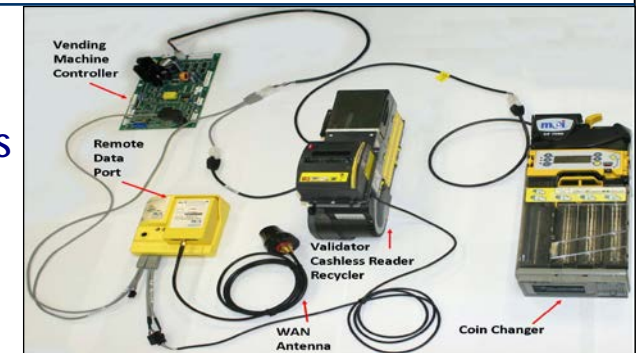
Code	Meaning	Code	Meaning
CA	Cassette Removed	OP	Recycler Cover Open
CF	Cassette Full	CL	Validator Needs Cleaning
JA	Bill Jam	bL=Validator Block, AJ=Validator Jam, Ib=Invalid Bill	JA=General Jam, dr=VNR motor failed, St=VNR motor stall
CC	Check Cable	CO=VMC communications failure, CH=Changer communications failure, AC=Bill validator communications failure	
HF	Hardware Failure	FA=General failure, AS=Validator Sensor, AH=Validator Hardware	9A=Gate failed, tA=Tach. Failure, SU=Setup

Menu

To access the **Menu** press and hold the **Mode** button until "*Ld*" is displayed. Each press of the **Mode** button will cycle to the next mode. When a mode is displayed, pressing the **Select** button will enter that mode.

Ld	UL	CP	SU
Load	Unload	Coupon	Setup*

*The **Setup** option is normally hidden. To activate the **Setup** menu option, press and hold the **Select** button until the display flashes "--" once. Within 2 seconds, press and hold the **Mode** button to enter the menu. While in a setup option, press and hold the **Select** button to save the displayed value.

Setup Options

rb	IF	CA	PL	Hb	AI	Pr
Recycled Bill	Interface	Capacity	Par Level	Hi Vis. Bezel	Accept Inhibit	Profile

VNR Connections (*WITH* Credit)

VNR Connections (*WITHOUT* Credit)

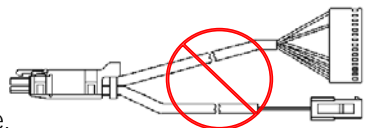**Note:** If your VN2700 was manufactured prior to week 48, 2009, you will need to send your Bill Validator to an Authorized Service Center to be upgraded with a Recycler Module. If your VN2700 has the **Recycler Ready Symbol** on the label, your VN2700 can be upgraded in the field.
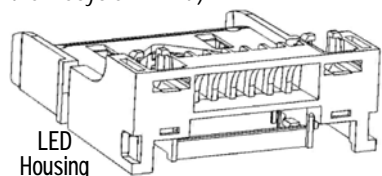
Recycler Ready Symbol

1. Make sure power to the vending machine is **OFF**.
2. Remove Bill Cassette.
3. Disconnect and remove "Y" MDB cable. (This cable is not used with the Recycler.)
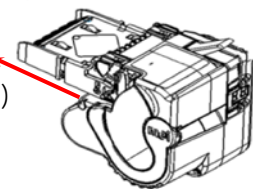4. Remove the VN2700 from the vending Machine.
5. Remove the Black Rain Shield by pressing a screwdriver in the bottom slot and sliding the cover up. Install the new Rain Shield. Slide it down until it snaps into place. (The difference between the two shields is that the new one has the edge filed off so that the new 30-pin connector from the Recycler will fit.)
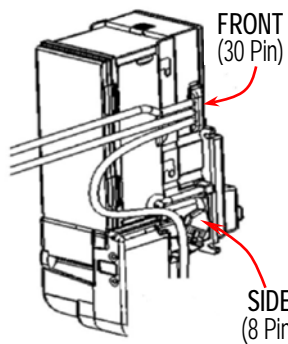6. Remove bottom LED Housing – Pull up the metal bar and remove the housing from the chassis. Disconnect the 8-pin cable going to the VN2700 control board.

LED Housing

7. Insert Recycler module. Make sure it *clicks* into place. (Pull back on the Recycler to ensure it locked into place.)

8. Connect Recycler harness to the **FRONT** of the Bill Validator using the 30-pin connector.

FRONT (30 Pin)

9. Connect the 8-pin connector between Recycler and the **SIDE** of the bill validator, (where the bottom of the LED housing was connected.)

SIDE (8 Pin)

10. Connect the 6-pin Male MDB COINMECH ONLY cable to the coin changer. (NEVER connect a device between the coin changer and the VN2700R.)
11. Connect the 6-pin Female MDB connector to the Vending Machine Controller.
12. Double check connections and then apply power to the vending machine.
13. If the MODE/SELECT display on the back of the VN2700R is ON, you are ready to proceed to the **Calibration Procedure**. If the display is not on, double check for loose connections.

VN2700R

Calibration Procedure

1. Apply power to the VN2700R. The rear display will read **0**
2. To access the Setup menu, press and hold the "**SELECT**" button for **3 seconds** or until **_ _** flashes.
3. *Within 2 seconds*, press and hold "**MODE**" until **Ld** *(Load)* begins to flash.
4. Press and release the "**MODE**" button **3 times** until **SU** *(Setup)* appears.
5. Press the "**SELECT**" button. **rb** *(recycled bill)* will appear.
6. Press the "**MODE**" button **6 times** until the display shows **Pr** *(Profile)*
7. Press the "**Select**" button. **CL** *(Calibrate)* will appear.
8. Press the "**Select**" button again and **CL** will blink rapidly.

► *You are now ready to calibrate the VN2700R.* ◄

9. Insert the Calibration paper supplied with the unit. *(ONLY insert the Calibration paper. DO NOT insert a bill or coupon.)*

The Calibration paper will be drawn into the Recycler and then ejected in a series of steps as calibration takes place. In a few more seconds, the unit will reset with a "run and stack" action. After calibration, the rear display will show "0" indicating the Recycler is currently empty and ready for use.

10. Calibration is now complete!

Sample VNR Installation Check List

- Remove the set back spacer from the bezel before installation. The spacer is only used on select snack machines and will often cause interference issues with beverage machines.
- Make sure the Recycler is mounted flush against the front panel, **without** any cable or mechanical interference. Particularly, look for screws or studs that are too long. **NOTHING** can press on the recycler in any way. Even the slightest pressure will misalign it and cause it to fail. Use configuration coupon (CP mode) to set the recycler to accept $10's and or $20's. The default from the factory accepts $1's & $5's.
- The Capacity (CA) is set to 25 from the factory.
- Set the Recycled bill (rb) to $1 or $5. Factory default is $1.
- Set Interface Level (IF) to the appropriate setting. L3 is the default. Set to L2 if accepting up to $20's. Set to **rE** if operating in MDB revision 4 mode.
- The Accept Inhibit (AI) Option can be set to "Yes". When set to "Yes", the recycler will inhibit acceptance of high-value bills if it cannot payout the majority of change in bills. This prevents the changer from being emptied out by a single transaction.

VN2700R

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1. You **MUST** have the Bill Programming Module (**BPM**) programmed with the latest Recycler code.

 - Power Down the Vending Machine's Payment Systems -

2. Disconnect the MDB connector that supplies power and communication to the Recycler.

3. Connect BPM connector in between the Recycler and the machine. (There is no connection to the 30-pin BPM connector. This is for service center use only.)

4. Power up the machine. Recycler display will power up normally, and the **RED** and **GREEN** LEDs on the BPM will begin to Flash. *NOTE:* Programming will take about 8 minutes to complete. DO NOT interrupt this process or you will have to restart the process from the beginning. DO NOT turn off the power and DO NOT unplug any cables while the BPM programs the Recycler.

5. The unit will start to download software to the **Recycler** from the BPM as indicated by the *"Double Flash"* of the **GREEN** LED. Unit will display **BP**

6. A "Constant Flash" of the **GREEN** LED indicates that the unit is downloading software to the **Bill Validator.** Unit will display **AP**

7. When programming is complete, the unit will do a complete Reset, followed by a normal Run and Stack. The **GREEN** LED will remain "Constant ON".

 NOTE: If at any time the RED and GREEN LEDs flash in an alternating fashion, there is a problem with the programming cycle and it needs to start over. To start over, turn OFF the machine power, count to five, then turn ON the machine power.

8. When programming is complete, power **OFF** the machine and disconnect the BPM.

9. Reconnect Recycler to the machine and then power **ON** the machine.

 VN2700R Software update is complete!