🔴	LED ON		
⊗	LED OFF		
✳	LED FLASHING		

L1	L2	L3	
			Power Up Sequence
FLASHING	OFF	OFF	Unit is booting up
ON	OFF	FLASHING	Unit is ready – Off line
ON	ON	FLASHING	Unit is ready –On line
FLASHING	FLASHING	FLASHING	Unit failed to boot up
			DEX Sequence
FLASHING	OFF	FLASHING	DEX Audit in progress
ON	OFF	ON	DEX completely successfully (15 sec)
OFF	OFF	FLASHING	DEX Failed (15 sec)
			Telemetry Sequence
ON	FLASHING	OFF	Telemetry Session in progress
ON	ON	OFF	Telemetry Session Completed (15sec)
ON	OFF	OFF	Telemetry Session Failed (15sec)
			Firmware Update Sequence
FLASHING	ON	FLASHING	Firmware Update in progress, (do not power off)
ON	FLASHING	ON	Firmware Update Complete (15sec)
OFF	ON	FLASHING	Firmware Update Failed (15sec)

🔴 = Push this Button

A	B	C	BUTTON FUNCTION
🔴 ON	⊗ OFF	⊗ OFF	Force DEX
⊗ OFF	🔴 ON	⊗ OFF	Force Audit Call
⊗ OFF	⊗ OFF	🔴 ON	Force Fill Key

Force Fill Key Operation:

The ADV 5100 and the Vending Machine must be **READY** and **ON-LINE**.
Press the **C** button. **Watch the Indicator LED's carefully.**
The Indicator LED's on the ADV 5100 will display the following sequence:

FLASHING	OFF	FLASHING	DEX audit in progress
ON	OFF	ON	DEX completed successfully (15 sec)
ON	FLASHING	OFF	Telemetry session in progress
ON	ON	OFF	Telemetry Session Completed OK (15 sec)
ON	ON	FLASHING	Unit is Ready and On-Line

By performing a Force Fill Key operation, you make the ADV 5100 DEX the vending machine and make a call, sending the data to the server.

This is the QR code for www.meigroup.com.

MEI
1301 Wilson Drive
West Chester, Pa. 19380
Technical Support:
1-800-345-8172
www.meigroup.com

Advance 5100
Remote Monitoring
Installation Tips

Give your machines a voice™

Getting Started
• Contact your MEI sales representative or Authorized MEI Distributor to discuss system options.
• Your MEI representative may conduct a site survey to determine equipment requirements. (Optional)

Needed Tools/Supplies
• Wire Cutters
• Cable Ties –UV stable cable ties and self-adhesive cable tie bases.
• Cleaning materials for vending machine surfaces. (Mild detergent)
• 1/2" drill w/metal drill bit (To install the antenna outside the machine) Pliers or Adjustable Wrench

Before Installation
• Verify that the machine and its components work properly prior to installation. Perform a test vend and verify change payback.
• Visually inspect machine cables for defects. Replace as needed.
• Locate a position where the ADV 5100 is easily accessible, make sure that the harnesses will reach and that no objects are obstructing the data port DEX Jack, any other port, the indicator LED's or the antenna.
• Turn **OFF** the vending machine before starting the installation.

Antenna Installation
Antennas shall be installed so that a separation distance of 20cm (8 inches) is maintained from individuals during normal use. Ensure that the antenna cable in not pinched or damaged by the opening and closing of the vending machine door. Only the antenna supplied with this device is to be used. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
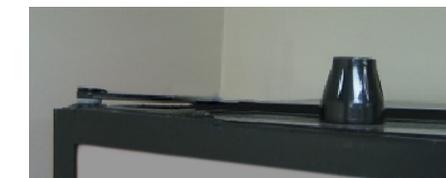
Avoid loops in the Antenna Cable

Harness Dressing Recommendation
All products and cables should be securely fastened to the vending machine. Any excess cable must **not** be coiled but should be tie wrapped to the vending machine cables.

Installation Instructions

1) Check vending machine for normal operation. **Fix and clear all errors**.

2) Unpack the Advance 5100 and identify system components.

3) Power **OFF** the vending machine.

4) Connect the DEX and the MDB harnesses to the ADV 5100 . Observe orientation of the key on the plugs. Leave sufficient space below the ADV 5100 device to plug in additional cables. This may mean installing the ADV 5100 on an angle but not horizontal.

5) Connect the GPRS antenna cable.

Note: The GPRS antenna is identified by a screw type connector that attaches to the GPRS radio. FINGER TIGHTEN ONLY !

Note: It is strongly recommended that the GPRS antenna be mounted on a horizontal plane (the top) outside the vending machine. This may be accomplished by drilling a 1/2" hole through the top of the vending machine and threading the antenna cable inside. The GPRS antenna strength may be influenced by the digital signal in the area and placement constraints in or on the vending machine.

6) Once satisfied with the potential ADV 5100 location, remove the ADV 5100 with attached harnesses and set aside. Thoroughly clean the machine surface where the ADV 5100 and the antenna will be installed.

7) Disconnect the antenna cable from the ADV5100 and set aside.

8) Remove the plastic adhesive backing from the hook and loop strips on the back of the ADV 5100 and firmly secure the ADV 5100 to the chosen mounting location. Attach the cable harnesses and check the security of the connections once the ADV 5100 has been secured to the machine surface.

9) Install wire tie wrap anchors below the ADV 5100 connections. Using the wire ties provided, secure cable harnesses to the anchors.

DEX Socket
Indicator LED's
Buttons
General Purpose Connection
Audit Connection (DEX)
MDB
Combo Bezel Credit Card Connection
USB Host
USB On The Go
LAN Antenna Connection
SIM Card
GPRS Antenna Connection
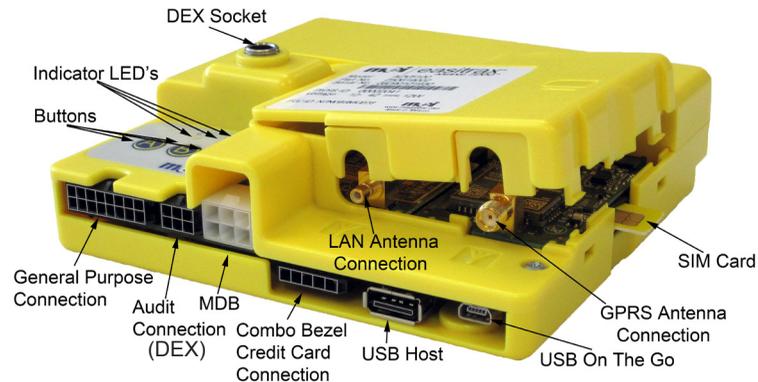
Installation Instructions (continued)

10) The MDB power and communication route should be as follows:
   a. From the VMC to the ADV 5100 harness
   b. From the harness to the ADV 5100 and to the bill validator MDB harness
   c. From the bill validator MDB harness to the Coin Mechanism harness.

11) Install GPRS Antenna. The GPRS antenna is identified by a screw type connector that attaches to the GPRS radio. Thoroughly clean the machine surface around the area where the GPRS antenna will be installed. The surface should be free of any dirt, dust, oils, or other foreign substances.

Warning: The antenna must be connected to the ADV 5100 *prior* to power up. Powering up the ADV 5100 without having connected the antenna may damage the unit.

12) Connect the DEX plug to the vending machine DEX jack. This DEX jack (if installed) can be found on either the vending machine control board or on a harness plugged into the vending machine control board.

Note: If the machine has no DEX jack, ensure that you tie off the harness from the connector so it does not impede machine operations. The Advance 5100 does not need the DEX conection to collect information.

13) Power **ON** the vending machine. The L1 red LED will be flashing on the ADV 5100. When the unit is Ready and On-Line, the L1 and L2 LEDs will be solid red, and the L3 LED will be flashing.

14) The installation is now complete and ready for testing.

15) Record the machine unique ID, Asset, and ADV 5100 PHYS ID numbers **and** perform a **Fill Key** operation.

16) *Optional:* Using the **MEI Telemeter Service Tool**, program the machine asset number into the ADV 5100 and the VMC from your Data Shuttle Unit.

17) *Optional:* Use the Survey Tab of the **MEI Telemeter Service Tool** to inventory the vending machine.

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ADV 5100 TROUBLESHOOTING

Issue \ Problem	Possible Reasons & Solutions
No Power to Machine	Check machine is plugged into outlet Check circuit breaker isn't tripped Check outlet has power Check the vending machines' powercord for open \ short.
No Power to ADV	Check machine's power (fuse, stack plug) Check ALL MDB cable connections to the ADV 5100 & the vending machine – **Power down to fix connections**
No Red LED's	Check ALL the machine's MDB connections – **Power down to fix connections** Try a different ADV 5100 in the vending machine
ADV 5100 Not Calling-In. Force a call, watch the LED's for the result.	Check Power to the machine & ADV 5100 Check All Antenna connections Check History logs for Call completions Check RSSI on WAN units **>8** Check IP & APN settings Check WAN Db settings Check Configuration Db settings Check DEX times
VMC not DEXing	Check Power to the vending machine Remove Aux. DEX connections from VMC Check for Shorted PINs on VMC connector Replace Plastic DEX Jack with a Metal one on Royal stack vendors Replace Corroded DEX Jack Check EPROM version is compatible
ADV 5100 not DEXing	Check Power to the machine & the ADV 5100 Check the DEX jack is fully plugged into VMC Remove Aux. DEX connection from VMC Check ADV 5100 firmware Force DEX > Get DEX results > Read History Logs for completion of DEX Audit DEX through the ADV 5100 Check DEX password is clear
Incorrect DEX information	Check VMCs EPROM version Check DEX mapping – Reconfigure if needed Check Product mapping DEX VMC >test vend >DEX VMC and compare values