

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



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

= Push this Button(s)

A	B	C	BUTTON FUNCTION
			Force DEX
			Force Audit Call
			Force Fill Key
			Enter Test Vend Mode
			Exit Test Vend Mode

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:

			DEX audit in progress
			DEX completed successfully (15 sec)
			Telemetry session in progress
			Telemetry Session Completed OK (15 sec)
			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.

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

Advance 5100 Remote Monitoring Installation Tips



Getting Started

- Contact your MEI sales representative or Authorized MEI Distributor to discuss system options.
- Your MEI representative will conduct a site survey to determine equipment requirements. (Optional)
- Your MEI representative will supply documents that must be completed and submitted to your credit card processor prior to installing the system equipment. Your Credit Card Processor account must be active before beginning installation.

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 prior to 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 is 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

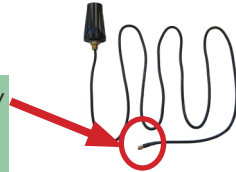
All products and cables should be securely fastened to the vending machine. Any excess cable should be tie wrapped to the vending machine cables.

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.

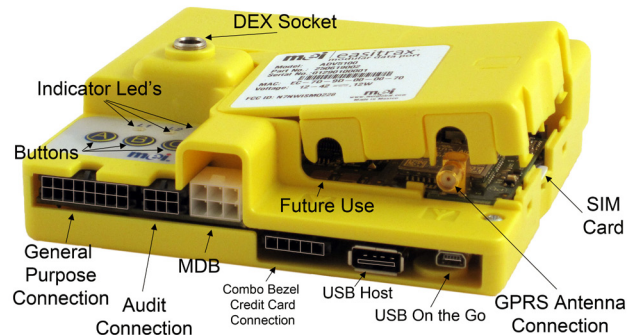
- 5) Connect the GPRS antenna cable.

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 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.



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.

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.

- 11) 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. The Advance 5100 does not need DEX capability to collect information.

- 12) Dress and secure harnesses as required using wire ties.

- 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 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 serial numbers and perform a Force 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.

MEI CONFIDENTIAL P/N 0000000000



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 machines power cord for open \ short.

No Power to ADV

Check machine's power (fuse, stack plug)
Check ALL MDB cable connections to ADV 5100 & machine
– Power down to fix connections

No Red LED's

Check ALL machine's MDB connections
– fix connections
Try a different ADV 5100 in machine

ADV 5100 Not Calling-In Force a call, watch the LED's for the result.

Check Power to 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 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 machine & 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