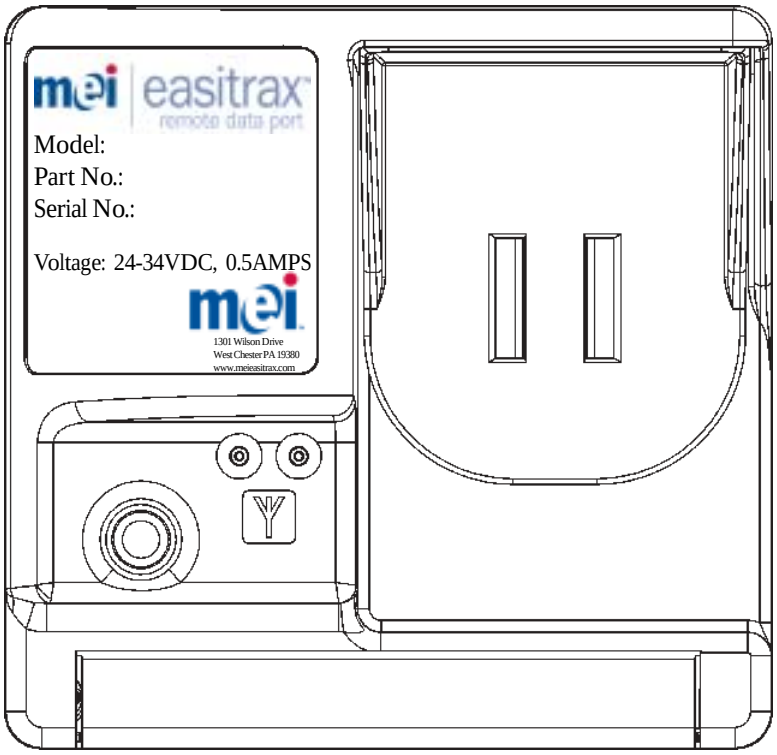
# Remote Data Port
# Install Guide



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# INTRODUCTION

## GENERAL INFORMATION

The remote data port lets you add industry-standard DEX data transfer capabilities to machines that are not audit enabled or add enhanced capabilities to DEX-enabled machines. The remote data port gathers data on cash transactions and vending cycles, including coin drops, bill insertions and product sales. This information is stored for later collection.

The remote data port is compatible with most vending machines and is simple to use and install. This manual is designed to assist in the installation of the remote data port into various vending machines. This manual will be revised periodically to ensure technical accuracy as more machines become available for retrofitting.

The system is available in two options:

1. Cash Only - Monitors cash sales only.
2. Full Option- Monitors cash sales and product vends.

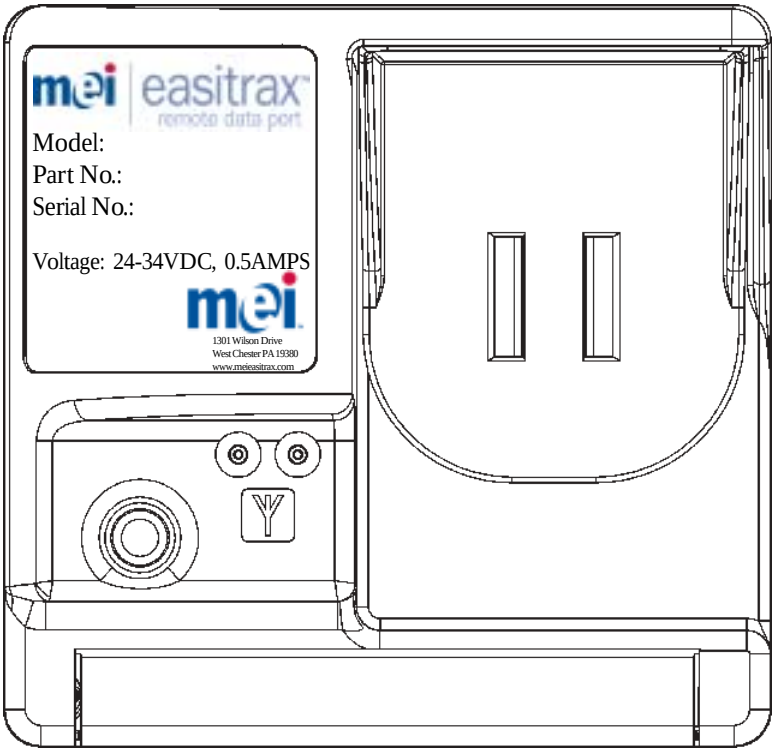
## PRODUCT FEATURES

•Optional Mounting Bracket
•Linear Motor Monitoring
•Matrix Motor Monitoring
•Status LED
•DEX Jack

Nominal Voltage: 24-34VDC

## INTERFACES SUPPORTED

•Micromech Interface
•Pulse & Serial Bill Validator
•ACD (Accumulated Credit Display)
•Cash Counter



# PRODUCT OVERVIEW

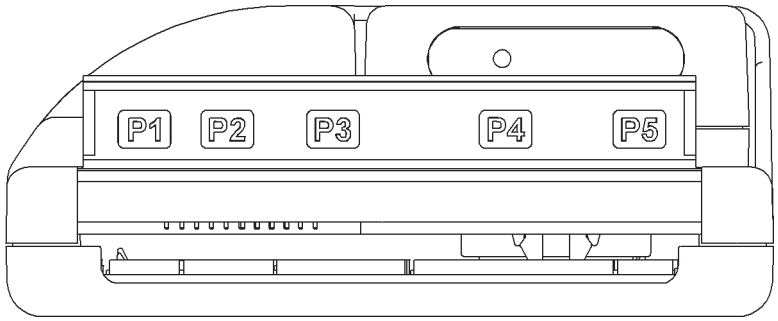
## SERIAL NUMBER CONFIGURATION

| WWYLCCPPPPP | |
|---|---|
| WW | - Week Manufactured (01 through 52) |
| Y | - Year Manufactured (2 for 2002) |
| L | - Manufacturing Location |
| CC | - Configuration Code |
| PPPPP | - Sequential Production Number |

## CONFIGURATION

The remote data port will be shipped with factory default settings. Each remote data port will require machine specific configuration using an MEI Support Tool. See MEI Easitrax Remote Data Port Configuration manual for instructions.

## REMOTE DATA PORT




Bottom View

The remote data port is the core of the audit retrieval system. It allows for easy retrieval of cash transactions and/or product vending cycles. The remote data port has five connection points for interfacing the port directly or indirectly through data pods to the vending machine.

| P1 - 215630001 | P2 - 215634004 | P3 - 215638002 | P4 - 215636003 | P5 - 215632005 |
|---|---|---|---|---|
| DDCMP/Printer<br>DEX<br>MDB | Electronic Lock<br>Credit Card Reader<br>Executive Interface (Master)<br>Executive Interface (Slave) | Config I/O, Dalla 1 Wire Temp<br>RS485 LAN<br>Optional Battery- Rechargeable<br>Fill Sw. Detector (Req. External I/F)<br>Light Detector (Req. External Isolation)<br>Cash Counter I/F (Req. Isolation) | LMM/MMM/DLMM/DMMM<br>HII2 Interface<br>Micromech Coin Mech<br>Printer<br>ACD<br>Parallel Coin Mech<br>Bill Validator | VMC Printer<br>One Wire Interface |

# PRODUCT OVERVIEW

## MEI EASITRAX VT 1000 (LMM)

The MEI EASITRAX VT 1000 is used when monitoring product vend cycles. It allows for high voltage monitoring of linear vend motors, credit line and cash counter.

| | |
|---|---|
| P1 | Data Port Interface |
| P2 | Linear Motor |
| P3 | Cash Counter |

## MEI EASITRAX DATA POD 200 (DMMM)

The MEI EASITRAX data pod 200 is used when monitoring product vend cycles. Its voltage source is the data port. **It allows for 5V logic to monitor matrix vend motors.**

| | |
|---|---|
| P1 | Data Port Interface |
| P2 | Matrix Motor |

### Before Installation

- Verify that the machine and its components work properly prior to data port installation.
- Power **MUST** be removed from the vendor prior to starting the installation.
- Visually inspect machine cables for defects. Adjust/Replace as needed.
- Perform a test vend and verify change payback.
- Locate a position where the data port is easily accessible, make sure that harnesses will reach pod(s) and that no objects are obstructing the data port DEX Jack.
- Clear all machine errors.

### Needed Tools/Supplies

- Cable Ties (Supplied by MEI)– Black UV stable cable ties and self-adhesive cable tie bases.
- Cleaning materials for vending machines.
- General assorted tools such as screwdrivers wire cutters, etc.

### Required Installation Standard

It is a requirement that all products and cables are securely fastened to the vendor. The installer will need to provide UV stable cable ties to securely fasten all cables to the vendor. Any looping of excess cable must be fastened to the vendor and service loops need to be minimized.

# AP-MACHINE INSTALLATION

**AP 6000 / 7000 Series Snack Machine**
**Remote Data Port Installation**

This machine can utilize the Full Option and Cash Only Option. If you are utilizing the Full Option perform steps 1 through 15.

**Required Components:**

| Description | Part Number |
|---|---|
| MEI EASITRAX Remote Data Port | 216173001 |
| MEI EASITRAX data pod 200 | 213662012 |
| 12 Pin Micromech Cable* | 215630006 |
| Electro-Mechanical "Stub" Harness | 215636003 |
| MDB Power Cable | 215630001 |
| VFM Interface Cable | 214977001 |
| 24V Supply Cable | 215631014 |
| AP 6000/7000 Kit | |
| Motor Monitor Cable | 215635012 |
| APi 7x10 Motor Matrix Cable | 214891001 |
| APi Series 4k-7k Power Cable | 214919001 |

**Note: The 12 Pin Micromech Cable and the VFM Interface Cable can be used with Mars and Coinco Products.*

**Installation Instructions**

**WARNING**
Do **Not** drill into high voltage wiring when drilling any necessary mounting holes.

1). Verify proper operation of the payment system. Perform a vend utilizing the bill validator and coin mech.

2). Power off the vending machine.

3). Install the Electro-Mechanical "Stub" Harness (p/n 215636003) to the P4 connector of the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

4). Install the MDB power cable (p/n 215630001) into the plug marked P1 on the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

5). Using supplied Velcro, attach the remote data port (p/n 216173001) to the machine. Make sure that the location of the remote data port does not impede machine operation.

# AP-MACHINE INSTALLATION

6) Connect the 12 Pin Micromech Cable (p/n 215630006) from the MEI coin changer to the Electro-Mechanical "Stub" Harness (p/n 215636003) coming out of the Remote Data P4 Connector.*

7) Connect the VFM Interface cable (p/n 214977001) from the bill Acceptor to the Electro-Mechanical "Stub" Harness (p/n 215636003) coming out of the Remote Data Port P4 Connector.*

8). Connect the Motor Monitor Cable (p/n 215635012) from the Micromech Cable (p/n 215630006) coming from the Coin Mech to the Data Pod 200 (p/n 213662012).

9). Connect the APi 7 X 10 Motor Matrix Cable (p/n 214891001) between the Data Pod 200 (p/n 213662012) and the Vending Machine. Using supplied Velcro, attach the Data Pod 200 to the machine near the data port. Make sure that the location of the Data Pod 200 does not impede machine operation or the closing of the cabinet door.

10) Connect the 24V Supply Cable (p/n 215631014) to the MDB power Cable (p/n 215630001) coming from the P1 connector on the Remote Data Port.

11) Connect the APi Series 4k-7k Power cable (p/n 214919001) from the 24V Supply Cable (p/n 215631014) to the Vending Machine.

12). Secure harnesses as required using wire ties.

13). Power on the vending machine. A solid green LED should be visible through the DEX socket (J1) located on the front of the data port.

14). Configure the remote data port by using the Palm-Based MEI EASITRAX RDP Installation Application.**

15). Verify the Remote Data Port installation by using the Palm-Based MEI EASITRAX RDP Installation Application.

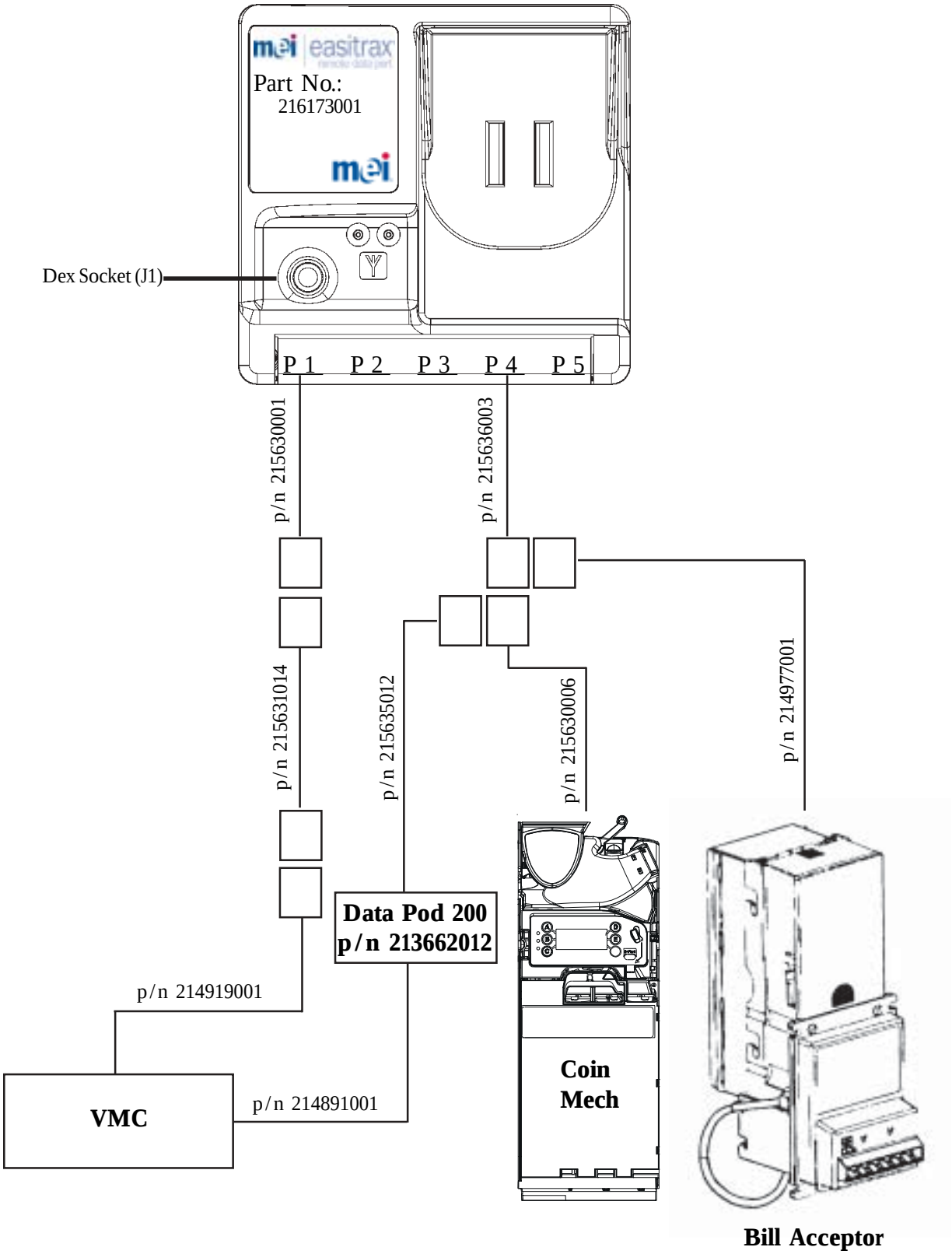
***Coin Changer & Bill Acceptor:**

Call our technical support help desk for instructions when connecting to a coin changer and/or bill acceptor manufactured by a company other than MEI.

****Configuration:**

Details pertaining to the configuration of the Remote Data Port are covered in the section "Palm-Based Installation Application".

# AP-MACHINE DIAGRAM



# DIXIE-MACHINE INSTALLATION

**DN Single Price Machine**
**Remote Data Port Installation**

This machine can utilize the Full Option and Cash Only Option. If you are utilizing the Full Option perform steps 1 through 13.

**Required Components:**

| Description | Part Number |
|---|---|
| MEI EASITRAX Remote Data Port | 216173001 |
| MEI EASITRAX VT 1000 LMM | 213663003 |
| ACD Cable | 215634009 |
| Electro-Mechanical "Stub" Harness | 215636003 |
| MDB Power Cable | 215630001 |
| 24V Supply Cable | 215631014 |
| DN Can Kit | |
| Motor Monitor Cable | 215638007 |
| Motor Cable | (See Chart on page 12) |

**Note: The MEI Single Price Changer must have accessory harness p/n (01-12-121) attached in order for installation. These instructions are for MEI Single Price Coin Changer only.**

**Installation Instructions**

**WARNING**
Do **Not** drill into high voltage wiring when drilling any necessary mounting holes.

1). Verify proper operation of the payment system. Perform a vend utilizing the bill validator and coin mech.

2). Power off the vending machine.

3). Install the Electro-Mechanical "Stub" Harness (p/n 215636003) to the P4 connector of the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

4). Install the MDB power cable (p/n 215630001) into the plug marked P1 on the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

5). Using supplied Velcro, attach the remote data port (p/n 216173001) to the machine. Make sure that the location of the remote data port does not impede machine operation.

# DIXIE-MACHINE INSTALLATION

6). Installing the ACD cable (p/n 215634009):

-Connect the 6 pin ACD connector at the end of the MEI coin mech harness to the mating 6 pin connector on the ACD cable tap**.***

-Connect the ACD Cable tap connector marked P3 to the mating 10 pin connector of the Electro-Mechanical "Stub" Harness (p/n 215636003) that is already attached to P4 of the Remote Data Port.*

7). Connect the Motor Monitor Cable from the Electro-Mechanical "Stub" Harness (p/n 215636003) to the VT1000 LMM (p/n 213663003).

8). Connect the 24V Supply Cable (p/n 215631014) between the MDB Power Cable (p/n 215630001) and the VT1000 LMM (p/n 213663003).

9). To complete connection, pick appropriate Motor Cable, based on machine model, from Dixie Narco table on page 12. Use this Motor Cable to connect from the vending machine door to the 16 pin connector on the VT1000 LMM.

10). Secure harnesses as required using wire ties.

11). Power on the vending machine. A solid green LED should be visible through the DEX socket (J1) located on the front of the data port.

12). Configure the remote data port by using the Palm-Based MEI EASITRAX RDP Installation Application.**

13). Verify the Remote Data Port installation by using the Palm-Based MEI EASITRAX RDP Installation Application.

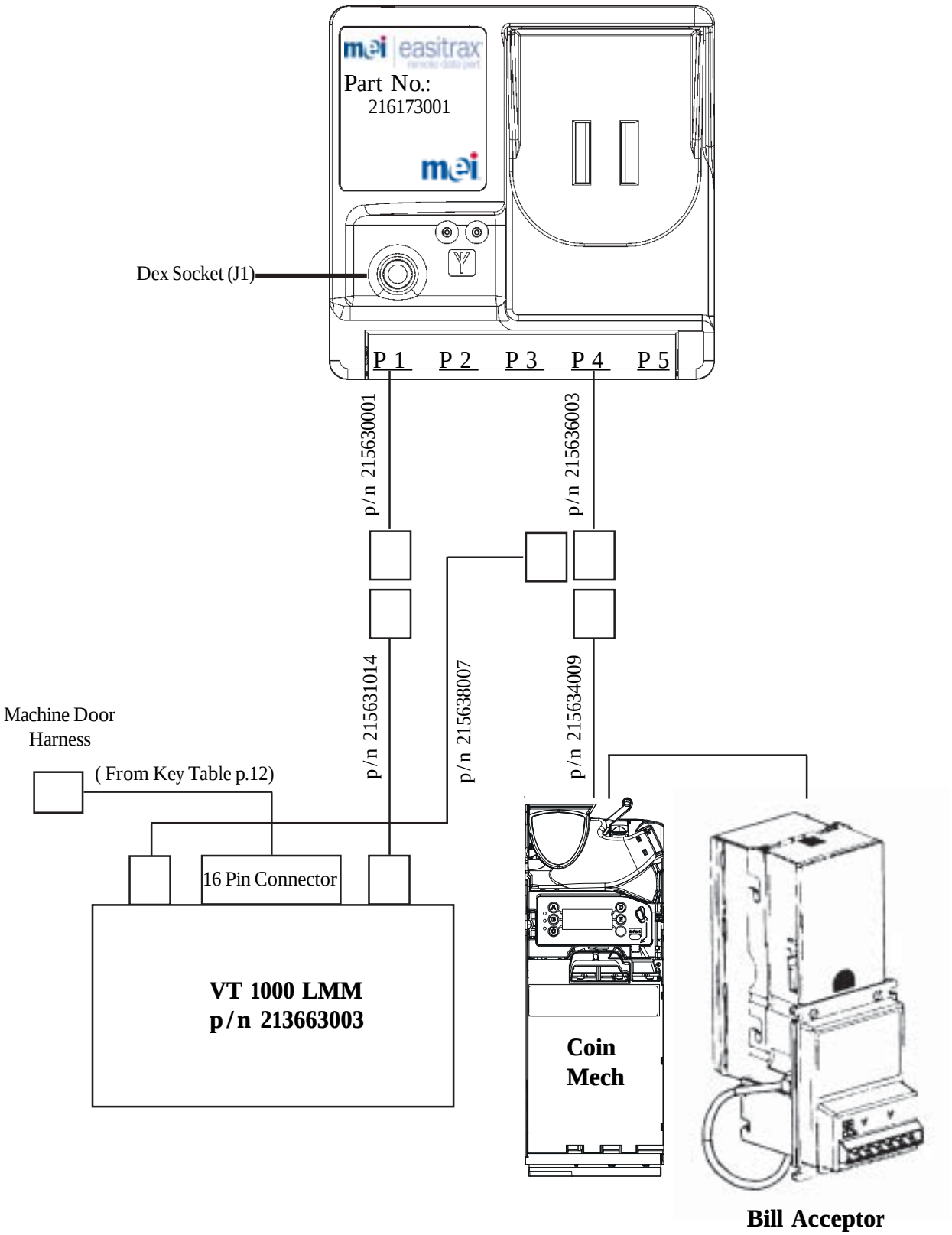
*** Coin Changer:**

Call our technical support help desk for instructions when connecting to a coin changer manufactured by a company other than MEI.

****Configuration:**

Details pertaining to the configuration of the Remote Data Port are covered in the section "Palm-Based Installation Application".

# DIXIE-MACHINE DIAGRAM



# DIXIE-MACHINE INSTALLATION

### Dixie Narco Motor Cable Chart

| Make/model | Qualifier | Door Cable | Installed Cable |
|---|---|---|---|
| DN – 8 | 803812110.11 | Tr | Tr |
| DN – 7 | 803812150.11 | Tr | Ts |
| DN - 7 803 | 803812150.11 | Tr | Ts |
| DN – 7 | 803812150.11 | Tr | Ts |
| DN – 6 | 803812340.01 | Tr | Tr |
| DN - 5 603 | 803812350.01 | Tr | Ts |
| DN - 5 603 | 803812370.01 | Tr | Ts |
| DN – 6 | 803812380.01 | Tr | Tr |
| DN – 5 | 803812540.01 | Tr | Tr |
| DN - 7 803 | 803815740.01 | Tr | Ts |
| DN – 9 | 803818540.01 | 10 | 10s |
| DN –10 | 803818550.01 | 10 | 10 |
| DN – 8 | 803819180.01 | Tr | Tr |
| DN – 6 | 803819190.01 | Tr | Tr |
| DN –10 | 803819220.01 | 10 | 10 |
| DN – 8 | 803820440.01 | Tr | Tr |
| DN - 7 803 | 803820450.01 | Tr | Ts |
| DN – 8 | 803820460.01 | Tr | Tr |
| DN – 6 | 803821050.01 | Tr | Tr |
| DN – 5 | 803821410.01 | Tr | Tr |
| DN - 7 803 | 803822920.01 | Tr | Ts |
| DN - 7 803 | 803822920.11 | Tr | Ts |
| DN – 6 | 803823320.01 | Tr | Tr |
| DN – 6 | 803823320.11 | Tr | Tr |
| DN – 8 | 803823610.11 | Tr | Tr |
| DN – 6 | 803825890.01 | Rd | 90 |
| DN - 7 803 | 803825980.01 | Rd | Rd |
| DN – 8 | 803826000.01 | Rd | 90 |
| DN – 8 | 803826030.01 | Rd | 90 |
| DN - 7 803 | 803826670.01 | Rd | 90 |
| DN - 7 803 | 903828330.31 | Rd | 90 |
| DN - 7 803 | 903829040.31 | Rd | 90 |
| DN – 8 | 903829050.11 | Rd | 90 |
| DN – 8 | 903829060.11 | Rd | 90 |
| DN - 7 803 | 903829070.11 | Rd | 90 |
| DN – 8 | 903829080.11 | Rd | 90 |
| DN – 10 | 903829180.21 | Rd | 90 |

KEY:
90 = Series 90 213581001
Rd = Reduced Split
Rs = RS SEQUENCER
Tr = Triple Split 213594001
Ts = TS SEQUENCER 215135017
10 = Ten Clm (2x15 pin)
10s = TC SEQUENCER 215133018

# RMI-MACHINE INSTALLATION

**RMI 2000 / 8050**
**MEI EASITRAX Remote Data Port Installation**

This machine **only** utilizes the Cash Only Option.

**Required Components:**

| Description | Part Number |
|---|---|
| MEI EASITRAX Remote Data Port | 216173001 |
| MEI EASITRAX VT 1000 LMM | 213663003 |
| ACD Cable | 215634009 |
| Electro-Mechanical "Stub" Harness | 215636003 |
| MDB Power Cable | 215630001 |
| 24V Supply Cable | 215631014 |
| 115V Power Tap Cable | 215633013 |

**Installation Instructions**

**WARNING**
Do **Not** drill into high voltage wiring when drilling any necessary mounting holes.

1). Verify proper operation of the payment system. Perform a vend utilizing the bill validator and coin mech.

2). Power off the vending machine.

3). Install the Electro-Mechanical "Stub" Harness (p/n 215636003) to the P4 connector of the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

4). Install the MDB power cable (p/n 215630001) into the plug marked P1 on the Remote Data Port (Observe orientation of the key. Ridge connector must face up).

5). Using supplied Velcro, attach the remote data port (p/n 216173001) to the machine. Make sure that the location of the remote data port does not impede machine operation.

6). Installing the ACD cable (p/n 215634009):

-Connect the 6 pin ACD connector at the end of the MEI coin mech harness to the mating 6 pin connector on the ACD cable tap**.***

-Connect the ACD Cable tap connector marked P3 to the mating 10 pin connector of the electromechanical "Stub" harness (p/n 215636003) that is already attached to P4 of the Remote Data Port.

7). Secure the ACD harness using wire ties.

8). To connect power to the Remote Data Port, make the following connections:

Plug in the 6 pin MDB end of the 24V supply cable (p/n 215631014) into the MDB connector on the MDB power cable (p/n 21563001).

Using the supplied 3M J-hook strips, attach the VT 1000 LMM module (p/n 213663003) near the top hinge of the machine's door. Make sure that the location of the VT1000 LMM does not impede machine operation.

Connect the 2 pin plug of the installed 24V supply cable (p/n 215631014) to the 2 pin connector on the front, left side of the VT1000 LMM (p/n 213663003).

With the latch facing up, connect the 16 pin connector of the 115V power tap cable (p/n 215633013) into the VT1000 LMM at the front, center opening.

On the vending machine, separate the 2 pin connector to the light transformer located on the inside part of the machine's roof. The remaining end of the installed 115V power tab has a male and female connector that will mate with the now separated light transformer connectors on the inside part of the machine roof.

9). Power on the vending machine. A solid green LED should be visible through the DEX socket (J1) located on the front of the data port.

10). Configure the remote data port by using the Palm-Based MEI EASITRAX RDP Installation Application.**

11). Verify the Remote Data Port installation by using the Palm-Based MEI EASITRAX RDP Installation Application.

*** Coin Changer:**

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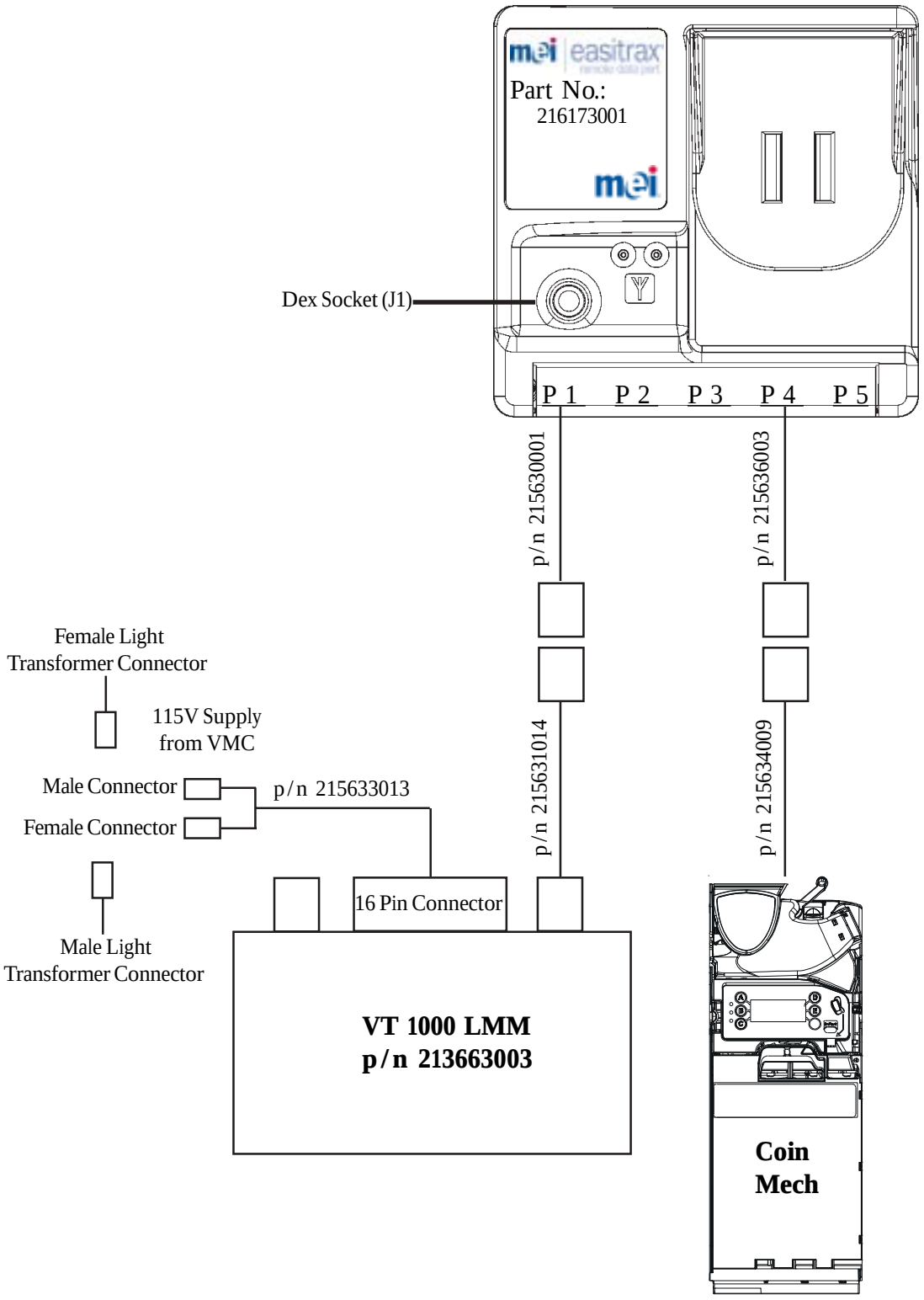
****Configuration:**

Details pertaining to the configuration of the Remote Data Port are covered in the section "Palm-Based Installation Application".

# RMI-MACHINE DIAGRAM



# COMPLIANCE

**USA, (902-928Mhz) -**

**FCC ID: QP8-MEI915WLAN**

**"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."**

**"Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."**

**Canada, (902-928Mhz) -**

**Canada: 1297B-MEI915WLAN**

**"This Class B digital apparatus complies with Canadian ICES-003."**

**"Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada."**

**"Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."**

**"This device has been designed to operate with an antenna having a maximum gain of 0 dB. Antennas having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms."**