



AE2800 Series Installation Guide

GENERAL INFORMATION

This Bill Acceptor is designed to fit into the standard bill acceptor opening provided by Gaming, Lottery, Kiosk and Vending machine manufacturers. It mounts on either the existing four mounting studs located in the amusement or vending machine or on the mounting bracket provided in various mounting kits.

Features of the AE2800 include:

- \$1, \$2, \$5, \$10, \$20, \$50 and \$100 bill acceptance
- Four Direction bill acceptance
- Re-programmable Flash Memory (Flashport™)
- Coupon configuration
- Enhanced Security
- Easy access to the bill path even when mounted
- Diagnostic LED (see back of unit)
- Multi-Drop Bus, Extended Bi-Directional Serial (EBDS), Vending and Gaming Interfaces (115/24/12V)
- Lighted Bezel (On Compact Model Only)
- Remote Download of Bill Sets (EBDS Interface)
- Cassette Removal Message (EBDS Interface)

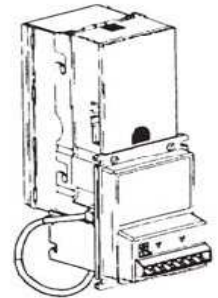


Figure 1

INTERFACE OPTIONS

The AE2800 Bill Acceptor is capable of operating via five interfaces: Low Level Pulse, AC/High Level Pulse, Serial, MDB or Extended Bi-directional Serial. The following harnesses are available to support these interfaces:

- 250077006C - 115 VAC Power Cable (High/Low Level Pulse, Serial Interface)
- 250075007C - 24 VAC Power Cable (High/Low Level Pulse, Serial Interface)
- 01-12-139C - 115 VAC Power Cable (Gaming & EBDS Interface)
- 250071043C - 24 VAC Multi-Drop Bus Interface (MDB)
- 250070079C - 12 VDC Power Cable (Pulse Interface)
- 250079049C - RS232 Cable

Note: These harnesses fit onto the male connectors located on the left side of the Bill Acceptor (see Fig. 3) and are designed to connect to the machine controller's or coin changer's Bill Acceptor interface harness.

For further information on either interface harnesses or mounting kits, please contact your supplier or MEI Service Center.

MEI

Technical Support 1(800) 345-8172
Customer Support 1(800) 345-8215
<http://www.meigroup.com>



INSTALLATION INSTRUCTIONS

1. Set Bill Acceptor option switches. See Figure 2.

NOTE: When you receive the product, all switches are off. This will automatically enable the options as follows:

- Accept \$1, \$2, \$5, \$10, \$20, \$50 and \$100 dollar bills.
- Four way accept.
- High Security accept.
- 50ms on/50 ms off pulse (short pulse).
- One pulse per dollar.
- Harness enabled.

IMPORTANT NOTE: Placing any switch ON will override the above options, and the Bill Acceptor will operate according to the switch settings label!! (See Figure 2)

NOTE: The unit may be configured with the attached coupon rather than using the option switches. For coupon configuration, turn all option switches OFF and proceed to Coupon Configuration instructions on page 4.

SWITCH DESCRIPTION	
1,2	Combination of these two switches selects number of enabled bill directions.
3	Position allows either acceptance or security to be maximized.
4,5	Individual switches enable or disable corresponding bill denomination.
6	Position allows for either Always Enable acceptance at all times or Harness Enable acceptance by way of controller.
7	Position allows for either one (1) or four (4) pulses per dollar. One pulse = 50ms on/50ms off.
8	Position allows for either Gaming Interfaces (amusement) or Vending Interfaces

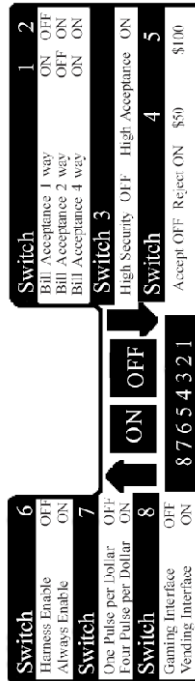
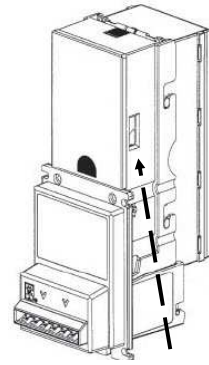


Figure 2

2. Remove power from the entire machine.

3. Install the AE2800 onto the Bill Acceptor mounting studs and through the mounting hole of the machine. Secure using the appropriate hardware.

NOTES

**Back of Configuration Coupon
Leave Blank! Do Not Write Below.**

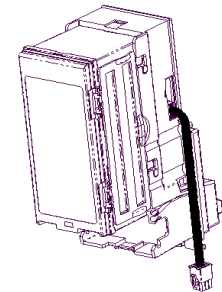
INSTALLATION INSTRUCTIONS (CONTINUED)

4. Connect the AE2800 to the appropriate interface harness.
Install the (12) pin connector into the bottom of interface slot, matching connector keys to blank pin locations. See Figure 3.

Do not force the harness into bill acceptor!! This will cause pins to bend or break!
A power cord (available separately - MEI Part# 01-12-139C, 115V only) may be used for supplying power to the bill acceptor and for routing pulse credits to a coin switch.



115V AE2800



12VDC & 24VAC AE2800

Figure 3

5. On 115V units, attach the ring terminal of the grounding wire to an earth ground location within the machine. Secure with appropriate hardware. See figure 3. To provide strain relief, wrap the enclosed tie-wrap around the closest mounting stud, harness wires, and ground wire, then pull tie-wrap tightly.

IMPORTANT NOTE TO OEMs: Step 5 must be performed prior to Machine Dielectric Voltage - Withstand Testing Hi-Pot.

6. Apply power to the machine.
Observe that the LED status indicator on the back of the AE2800 is ON and NOT flashing. This condition indicates that the unit is ready to accept bills.

- If the light is OFF, check to ensure that power has been applied.
- If the light is flashing, refer to the label located on the back of the magazine for a description of diagnostic codes.

7. Check operation

- Insert a \$1 bill and observe that it is accepted and stacked.
- Repeat for other enabled bills.
- Insert a \$5 bill and verify that proper credits have been established.
- Ensure that proper credit was given, if not reconfigure the AE2800, using coupon or switch 7 for number of pulses per dollar.

8. Remove bills and check status

- Instructions for bill removal are located on label at the back of magazine.
- Verify that the LED status indicator remains steady ON.

COUPON CONFIGURATION (ALL SWITCHES OFF)

1. Carefully remove the coupon from this Installation Guide. Copies are usable if made on a standard, carbon-based, non-color copier, AND if cut to match the size of the attached coupon. (Coupon is located on page 9.)
2. Fill out the coupon using a #2 or HB pencil. Fill in one block for each line. Do not mark the back of the coupon.

Section 1 - Bill Denomination Fill in one block for \$1 bill acceptance. Select High Accept for maximum bill acceptance. Select High Security for a higher level of discrimination. Select OFF to reject bills of that denomination.

Section 2 - Bill Denomination Fill in one block for each denomination. Select High Accept for maximum bill acceptance. Select High Security for a higher level of discrimination. Select OFF to reject bills of that denomination.

Section 3 - Bill Denomination Fill in one block for \$100 bill acceptance. Select High Accept for maximum bill acceptance. Select High Security for a higher level of discrimination. Select OFF to reject bills of that denomination.

Section 4 - Pulses per Dollar Most gaming and lottery machines use four pulses per dollar and vending machines use one pulse per dollar.

Section 5 - Interface Selection Select one of three interfaces.

3. Locate the service button on the back of the unit (refer to Figure 4). Depress the button once to enter coupon set-up mode. Depressing again will exit the mode.

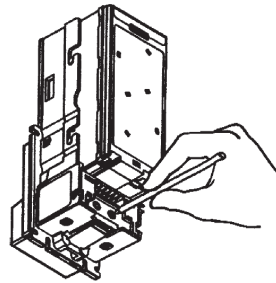


Figure 4

4. Insert coupon and verify settings were accepted.

ACCEPTED: Coupon returned immediately and LED flashes 10 times when coupon pulled out.

REJECTED: Coupon returned after ten seconds. LED flashes number of times corresponding to section improperly filled out. Example: Two flashes for improper section two. If rejected, review instructions or try new coupon.

CLEANING

The AE2800 series will not need cleaning as often as magnetic sensing Bill Acceptors. If cleaning is required, use a soft cloth moistened with mild, non-abrasive detergent. Refer to label on the back of the magazine for cleaning instructions.

CONFIGURATION COUPON

Electronic copies of this manual will not have the coupon included. Please contact MEI if you need a configuration coupon.

PINOUT INFORMATION FOR 30-PIN CONNECTOR (CONT.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

GAMING AND LOTTERY PINOUTS ONLY

PINOUTS	115V AC MODEL	24VT AC/MDB MODEL	12V DC MODEL	12V BATT MODEL
PIN 1	CREDIT RELAY COMMON	SAME	SAME	SAME
PIN 2	RESERVED	CREDIT RELAY N.O.	CREDIT RELAY N.O.	CREDIT RELAY N.O.
PIN 3	RESERVED	24V AC HOT POWER	RESERVED	RESERVED
PIN 4	115V AC NEUTRAL POWER	RESERVED	RESERVED	RESERVED
PIN 5	RESERVED	KEY	KEY	KEY
PIN 6	KEY	RESERVED	RESERVED	RESERVED
PIN 7	CREDIT PULSE	SAME	SAME	SAME
PIN 8	INTERRUPT_NOT	SAME	SAME	SERVICE +
PIN 9	SERIAL/PULSE_NOT	SAME	SAME	GROUND
PIN 10	LOW LEVEL_GND	SAME	SAME	SAME
PIN 11	SERIAL_DATA_OUT	SAME	SAME	SAME
PIN 12	NOT USED	SAME	SAME	SAME
PIN 13	NOT USED	SAME	SAME	SAME
PIN 14	NOT USED	SAME	SAME	SAME
PIN 15	NOT USED	SAME	SAME	SAME
PIN 16	CREDIT RELAY – OPEN	DC RETURN	12V DC RETURN	12V DC RETURN
PIN 17	RESERVED	RESERVED	RESERVED	RESERVED
PIN 18	RESERVED	RESERVED	RESERVED	RESERVED
PIN 19	KEY	RESERVED	12V DC HOT POWER	12V DC HOT POWER
PIN 20	115V AC HOT POWER	24V AC NEUTRAL POWER	RESERVED	RESERVED
PIN 21	EARTH GROUND	KEY	KEY	KEY
PIN 22	OUT-OF-SERVICE	SAME	SAME	SAME
PIN 23	RESERVED	SAME	SAME	SAME
PIN 24	ACCEPT ENABLE_NOT	SAME	SAME	INHIBIT +
PIN 25	OUT-OF-SERVICE POWER	SAME	SAME	SAME
PIN 26	SEND_NOT/SERIAL IN	SAME	SAME	SAME
PIN 27	RESERVED	SAME	SAME	SAME
PIN 28	RESERVED	SAME	SAME	SAME
PIN 29	RESERVED	SAME	SAME	SAME
PIN 30	RESERVED	SAME	SAME	SAME

CHECK LIST

If a problem occurs	Please check the following
Unit dead (does not power up).	<ol style="list-style-type: none"> 1. Harness(es) may be loose, not properly connected, or bent pins. 2. Check source voltage to ensure that power is being supplied to the bill acceptor.
Read message light flashing twice (disabled from coin mech / VMC). NOTE: If flashing other than twice refer to label on back of the magazine.	<ol style="list-style-type: none"> 1. Check settings on the bill acceptor to ensure that proper interface options are being used. If only the 9-pin power cable is being used, make sure that the switch #8 is in the OFF position (Always Enable).
Unit takes a bill, but does not credit.	<ol style="list-style-type: none"> 1. Check to ensure that the proper interface has been selected (long / short pulse).

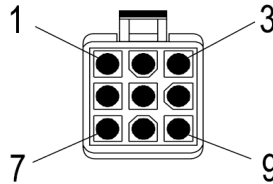
PINOUT INFORMATION FOR 30-PIN CONNECTOR

•Power Harness

115 VAC Part# 25007706C
 24 VAC Part# 250075007C
 12 VDC Part# 250070079C

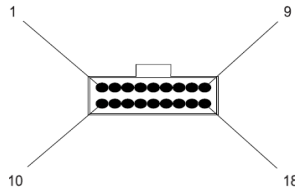
Connector Assignment for the 9-pin Cable

- *Pin 1 NEUTRAL INHIBIT
- Pin 2 NEUTRAL ENABLE
- Pin 3 HOT ENABLE
- Pin 4 115 VAC HOT (POWER)
- Pin 5 24 VAC / 12 VDC HOT (POWER)
- Pin 6 115 / 24 VAC NEUTRAL
- Pin 7 CREDIT RELAY (N.O)
- Pin 8 CREDIT RELAY (COMMON)
- Pin 9 12 VDC NEUTRAL



9 - Pin Mating Connector
AMP "MATE-N-LOCK" (9) pin
AMP Part# 172161-1 Shell
AMP Part# 170364-1 Male Pin
#22 Gauge Wire Recommended

* Alternate plug compatibility for pins 7-15 and 22-30 of the 30-pin connector.



18 - Pin Mating Connector
AMP "MODU" (18) pin MT receptacle
AMP Part# 102398-7 IDC Connector Housing
AMP Part# 102536-7 Back cover
AMP Part# 102681-4 Front cover
#22 Gauge Wire Recommended

PINOUT INFORMATION FOR 30-PIN CONNECTOR (CONT.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

VENDING PINOUTS ONLY				
PINOUTS	115V AC MODEL	24V AC/MDB MODEL	12V DC MODEL	12V BATT MODEL
PIN 1	CREDIT RELAY COMMON	SAME	SAME	NOT APPLICABLE
PIN 2	RESERVED	CREDIT RELAY N.O.	CREDIT RELAY N.O.	NOT APPLICABLE
PIN 3	NEUTRAL ENABLE	24V AC HOT POWER	RESERVED	NOT APPLICABLE
PIN 4	115V AC NEUTRAL POWER	HOT ENABLE	RESERVED	NOT APPLICABLE
PIN 5	NEUTRAL INHIBIT	KEY	KEY	NOT APPLICABLE
PIN 6	KEY	MDB MASTER RECEIVE	MDB MASTER RECEIVE	NOT APPLICABLE
PIN 7	\$1 CREDIT_NOT	SAME	SAME	NOT APPLICABLE
PIN 8	INTERRUPT_NOT	SAME	SAME	NOT APPLICABLE
PIN 9	\$5 CREDIT_NOT	SAME	SAME	NOT APPLICABLE
PIN 10	LOW LEVEL_GND	SAME	SAME	NOT APPLICABLE
PIN 11	DATA_NOT	SAME	SAME	NOT APPLICABLE
PIN 12	ESCROW HIGH	SAME	SAME	NOT APPLICABLE
PIN 13	\$5 ENABLE HIGH	SAME	SAME	NOT APPLICABLE
PIN 14	\$2 ENABLE HIGH	SAME W MDB_MASTER_TXD	SAME W MDB_MASTER_TXD	NOT APPLICABLE
PIN 15	\$1 ENABLE HIGH	SAME	SAME	NOT APPLICABLE
PIN 16	CREDIT RELAY – OPEN	DC RETURN	12V DC RETURN	NOT APPLICABLE
PIN 17	RESERVED	NEUTRAL INHIBIT	RESERVED	NOT APPLICABLE
PIN 18	HOT ENABLE	NEUTRAL ENABLE	RESERVED	NOT APPLICABLE
PIN 19	KEY		12V DC HOT POWER	NOT APPLICABLE
PIN 20	115V AC HOT POWER	24V AC NEUTRAL POWER	RESERVED	NOT APPLICABLE
PIN 21	EARTH GROUND	KEY	KEY	NOT APPLICABLE
PIN 22	OUT-OF-SERVICE_NOT	SAME	SAME	NOT APPLICABLE
PIN 23	RESERVED	MDB_34V DC	RESERVED	NOT APPLICABLE
PIN 24	ACCEPT ENABLE_NOT	SAME	SAME	NOT APPLICABLE
PIN 25	\$2 CREDIT_NOT/	SAME	SAME	NOT APPLICABLE
PIN 26	SEND_NOT	SAME	SAME	NOT APPLICABLE
PIN 27	\$1 ENABLE LOW	SAME	SAME	NOT APPLICABLE
PIN 28	\$2 ENABLE LOW	SAME W MDB_COMMON	\$2 ENABLE LOW	NOT APPLICABLE
PIN 29	\$5 ENABLE LOW	SAME	SAME	NOT APPLICABLE
PIN 30	ESCROW LOW	SAME	SAME	NOT APPLICABLE