MC Series Bill Acceptors

Installation Guide/Application Data

Operational Specifications

Product Features

- Bill widths accepted: MC2600 (66mm), MC7200 (72mm)
- Operating Voltages: 110VAC, 24VAC, 24VDC, 12 VDC
- Communication Interface: MDB, Pulse, Vend Serial, ccTalk, ICT serial over RS232.
- Four-Way Acceptance
- Mounting: Upstack or Downstack
- Lighted Bezel (on standard mask only)
- Coupon capable
- Superior Stringing Protection

Operating Temperature Range: 0^{O}F - 150^{O}F

Storage Temperature Range: -22^{O}F - 160^{O}F

Input Power Requirements:

120 VAC	90-135VAC @1.0A
24VAC	20-32VAC @1.5A
24VDC	20-45VDC @1.5A
12VDC	10-14VDC @4A

Bill Acceptance:

US	$1	$5	$10	$20		
CAD	$5	$10	$20	$50	$100	
EURO	€5	€10	€20			
RUR	5	10	50	100	500	1000

MC Series Model Naming Convention

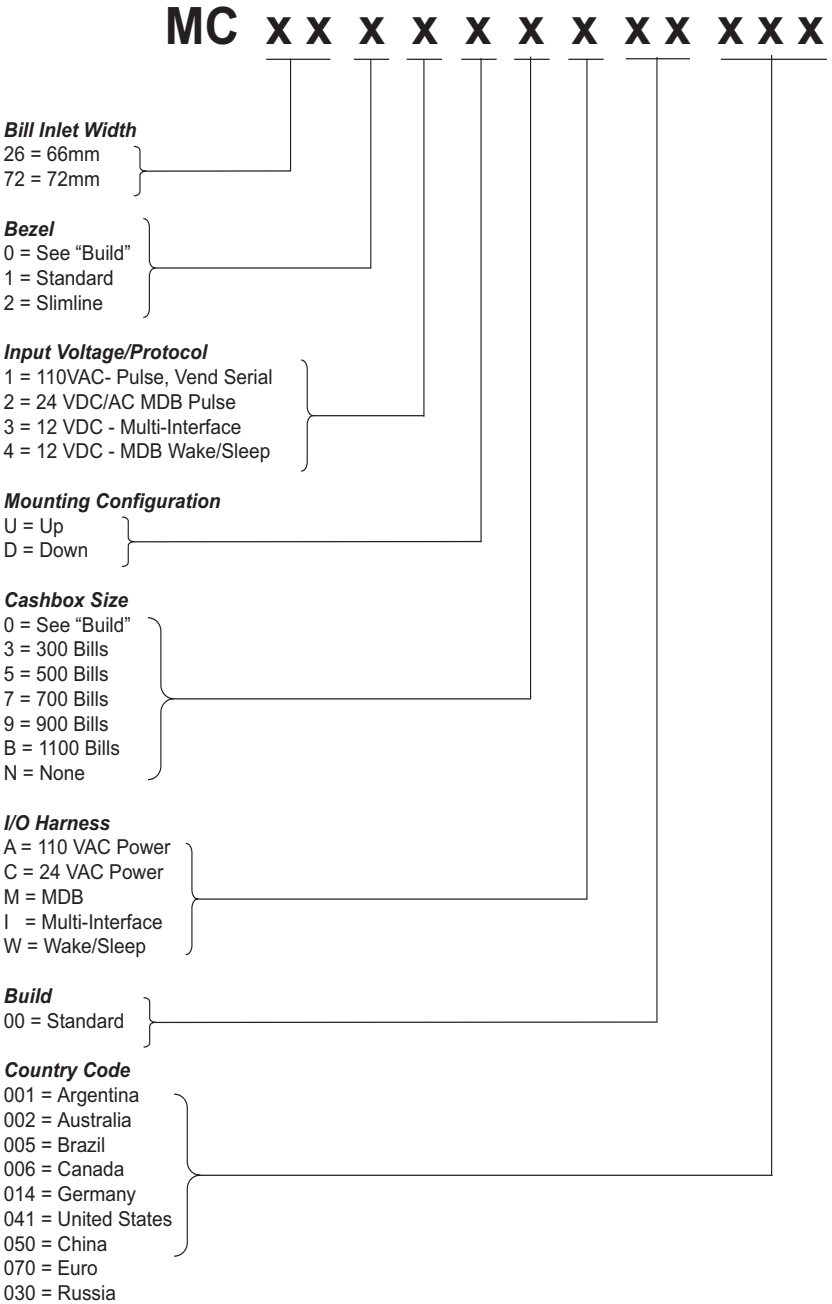


Figure 1

Bezel Types

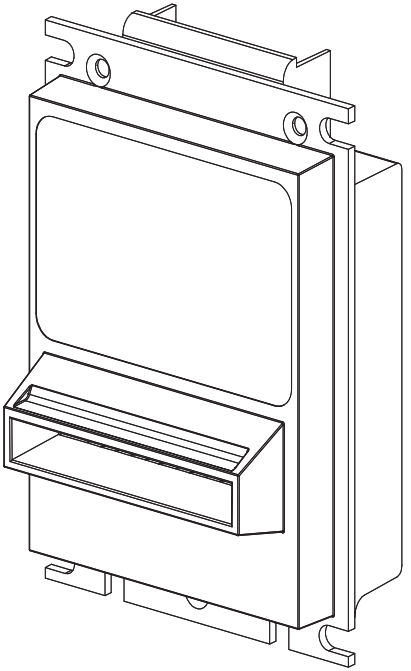


Figure 2: Slimline Bezel

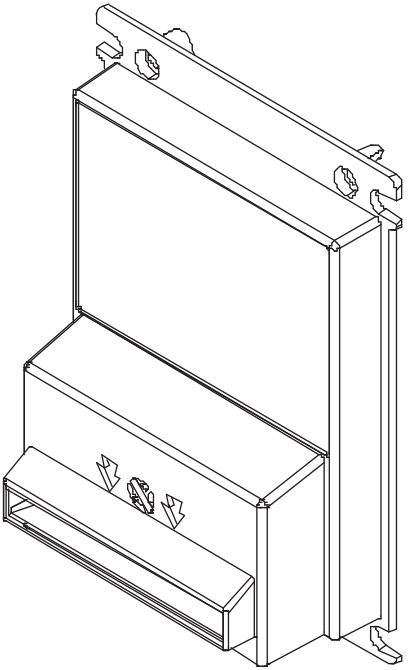


Figure 3: Standard Bezel

Unpacking:

After unpacking the unit, inspect for any possible shipping damage. If damaged, notify the shipping company immediately. Keep the carton and packing material to reuse if you need to transport or ship the changer in the future. Labels indicating the model and serial number are on the side of the bill acceptor. Refer to these numbers when calling upon your Coinco Service Center representative for information or service.

Installation

NOTE: The Metal mounting plate must be connected to earth ground.

1. Remove power from host machine.

2. Set bill acceptor dip switches, if required. (see Page 5).

3. Install the bill acceptor into the host machine using the mounting studs and hardware in the machine.

4. Install / Connect the proper interface harness to the host machine.

5. Apply power to the machine, verify that the Green Flashing Arrows on the front of the bill acceptor (with standard mask) are ON and blinking. This condition indicates that the bill acceptor is ready to accept bills.
   • If the Lights are off, check connections and make sure power is applied.
   • Also check the rear diagnostic LED, the status codes are listed on the cashbox and in the figure below.

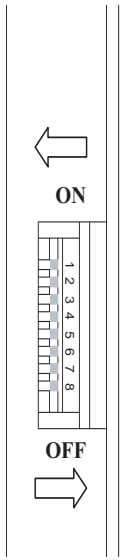
6. Check Operation, once the Green Arrows are flashing, insert bills to verify proper acceptance and credit.

Diagnostic LED	
# of LED Flashes	**LED Status**
Normal Pulse Rate 1 pulse per second	Ready
Fast Pulse Rate 3 pulses per second	Check Stacker/Cashbox
Not Lit	Check Power
Steady ON	Replace Acceptor
2 Flashes	Bill Inhibited
3 Flashes	Disabled by Host
4 Flashes	Clear Bill Path
5 Flashes	Clean Bill path

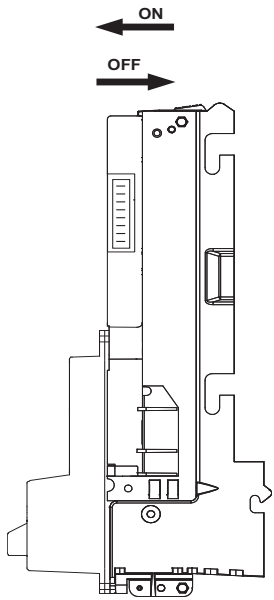
Dip Switch Configuration

	US Dip Switch ON/OFF	Canadan Dip Switch ON/OFF	Euro Dip Switch ON/OFF	Russian Dip Switch ON/OFF
Switch 1	$1 enable/disable	$10 enable/disable	€5 enable/disable	RUR 50 enable/disable
Switch 2	$5 enable/disable	$20 enable/disable	€10 enable/disable	RUR 100 enable/disable
Switch 3	$10 enable/disable	$50 enable/disable	€20 enable/disable	RUR 500 enable/disable
Switch 4	$20 enable/disable	$100 enable/disable	RESERVED	RUR 1000 enable/disable
Switch 5	4 Pulse / 1 Pulse per $1	RESERVED	RESERVED	Pulse / ICT Serial
Switch 6	Always / Harness enabled	RESERVED	RESERVED	Short Pulse / Long Pulse
Switch 7	Short Pulse / Long Pulse	RESERVED	RESERVED	2 Pulse / 1 Pulse per RUR 10
Switch 8	Coupon enable/disable	Coupon enable/disable	RESERVED	Always/Harness enabled

Figure 4
Dip Switch Locations and Position



PC Board



Front of MC Series Acceptor

MC2600/7200 Description

NOTE: The metal mountaing plate must be connected to earth ground.

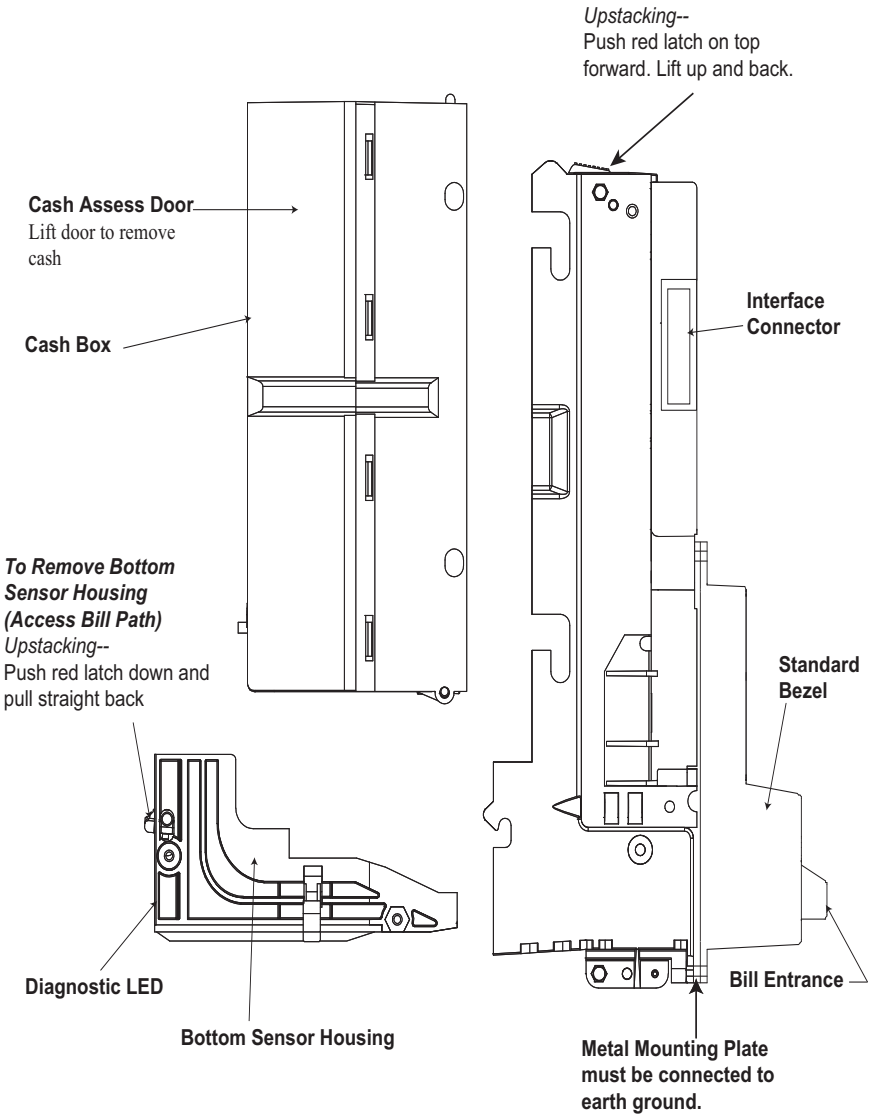


Figure 5

Maintenance

Recommended Cleaning Material:

A mild solution of detergent can be used for cleaning the belts, bill path and sensor lenses, as well as for general cleaning of the acceptor. Beverages or other water-soluble liquids which have been spilled on or into the acceptor can usually be removed with warm soapy water. External surfaces can be cleaned with a damp cloth.

Note: Petroleum-based cleaners and freon-based propellants can damage plastic and some electronic componenets. Scouring pads and stiff brushes may harm the circuit boards and can mar the plastic. These items should never be used when cleaning the bill acceptor.

Cleaning the Optical Sensor Lenses and Gray Scales

Warning: Remove power from the bill acceptor before opening the bill path.

Remove the cash box and bottom sensor housing from the acceptor. To clean the optical sensor lenses and gray scales use a "Lint Free" cloth with a mild detergent. Repeat the cleaning process as needed until all the sensor surfaces are free of contaminants. Remember to clean both sensor lenses.

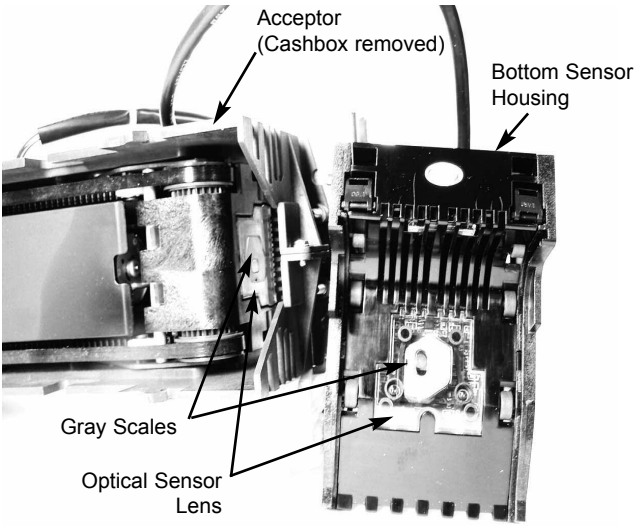


Figure 6

Figure 7: **MC2600 Dimensional Drawing**
(Up Stacking Position)

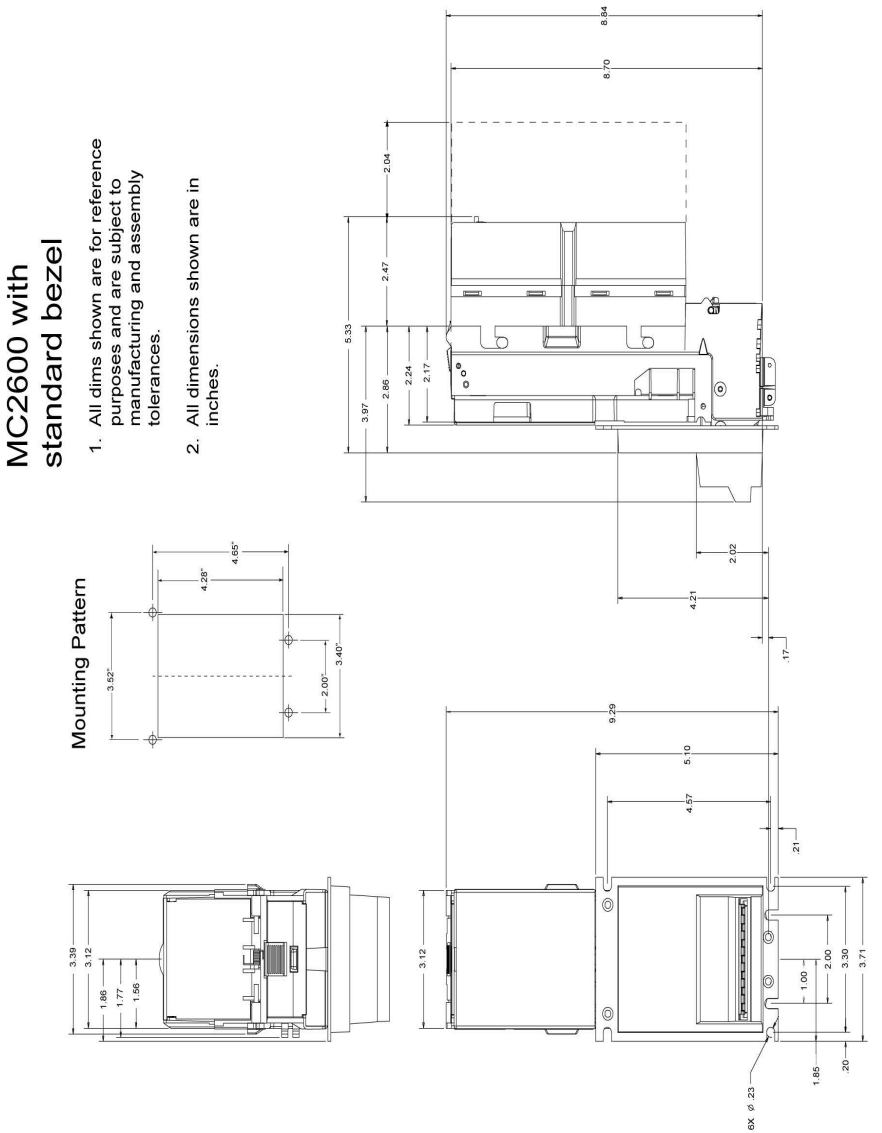


Figure 8: **MC7200 Dimensional Drawing**
(Up Stacking Position)

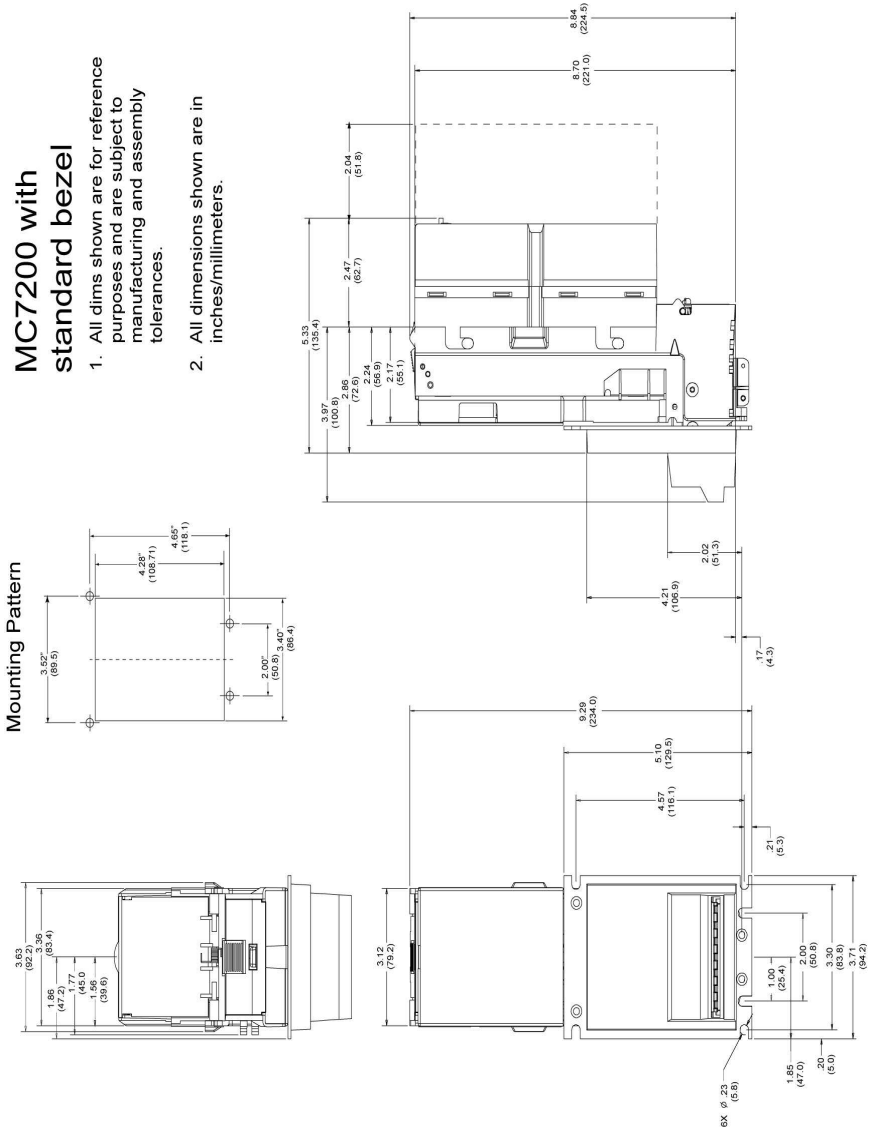
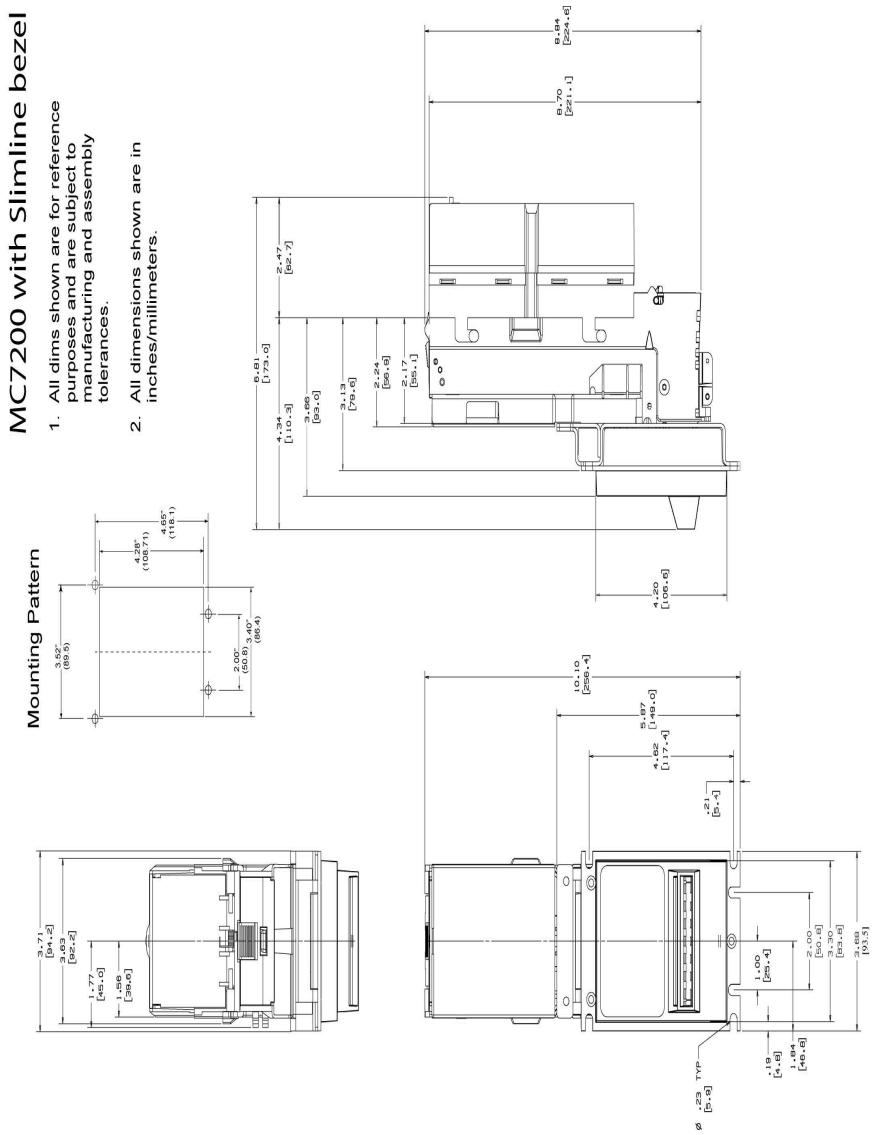


Figure 9: **MC7200 Dimensional Drawing**
(Up Stacking Position)



Interface Connectors

30 Pin Mating Connector

Receptacle Housing	AMP 1-104482-3
Receptacle Pins	AMP 104479-2
Receptacle Polarizing Pins	AMP 87077-2

16 Pin Mating Connector

Polarized Receptacle Housing	VENSIK 5000-PAI-2x08
Receptacle Pins	VENSIK 4000-T-PS-T

8 Pin Download/Diagnostics Mating Connector

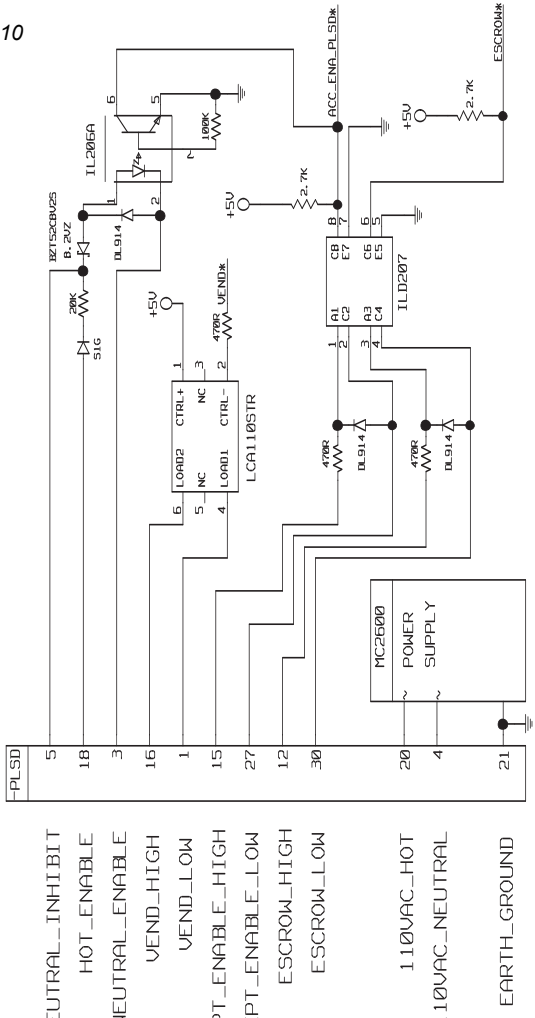
Polarized Receptacle Housing	AMP 87631-3 or 2-87977-9	Money Controls 35x816-8
Receptacle Pins	AMP 85969-9 or 86016-3	Money Controls 35x245

Pinouts

Pin #	MCxxx2 (24VAC/VDC)	MCxxx1 (110VAC)	MC72x3 (12VDC)	MC72x4 (12VDC with MDB wake
1	CREDIT_RELAY_COMMON	CREDIT_RELAY_COMMON	CREDIT_RELAY_NO	NOT USED
2	CREDIT_RELAY_NO	NOT USED	12VDC	12VDC
3	24VAC_HOT	NEUTRAL_ENABLE	CREDIT_RELAY_COMMON	NOT USED
4	HOT_ENABLE	110VAC_NEUTRAL	DC_RETURN	DC_RETURN
5	KEY	NEUTRAL_INHIBIT	SIGNAL_GROUND	SIGNAL_GROUND
6	MDB_MASTER_RX	KEY	CCTALK	NOT USED
7	TX_232	TX_232	A2_EN/CCTALK_EN*	NOT USED
8	INTERRUPT*	INTERRUPT*	MDB_COM	MDB_COM
9	CCTALK	CCTALK	MDB_MASTER_TX	MDB_MASTER_TX
10	SIGNAL_GROUND	SIGNAL_GROUND	MDB_MASTER_RX	MDB_MASTER_RX
11	DATA*	DATA*	RX_232	NOT USED
12	ESCROW_HIGH	ESCROW_HIGH	ESCROW_LOW	NOT USED
13	232_EN/CCTALK_EN*	232_EN/CCTALK_EN*	ESCROW_HIGH	NOT USED
14	MDB_MASTER_TX	NOT USED	TX_232	MDB_WAKE
15	ACCEPT_ENABLE_HIGH	ACCEPT_ENABLE_HIGH	ACCEPT_ENABLE_HIGH	NOT USED
16	DC_RETURN	CREDIT_RELAY_NO	ACCEPT_ENABLE_LOW	NOT USED
17	NEUTRAL_INHIBIT	NOT USED		
18	NEUTRAL_ENABLE	HOT_ENABLE		
19	NOT USED	KEY		
20	24VAC_NEUTRAL	110VAC_HOT		
21	KEY	EARTH_GROUND		
22	OUT_OF_SERV*	OUT_OF_SERV*		
23	MDB_34VDC	NOT USED		
24	ACCEPT_ENABLE*	ACCEPT_ENABLE*		
25	OUT_OF_SERV_POWER	OUT_OF_SERV_POWER		
26	SEND*	SEND*		
27	ACCEPT_ENABLE_LOW	ACCEPT_ENABLE_LOW		
28	MDB_SIGNAL_COM	NOT USED		
29	RX_232	RX_232		
30	ESCROW_LOW	ESCROW_LOW		

MC2600/MC7200 Pulsed Interface Connections for 30 Pin 110VAC

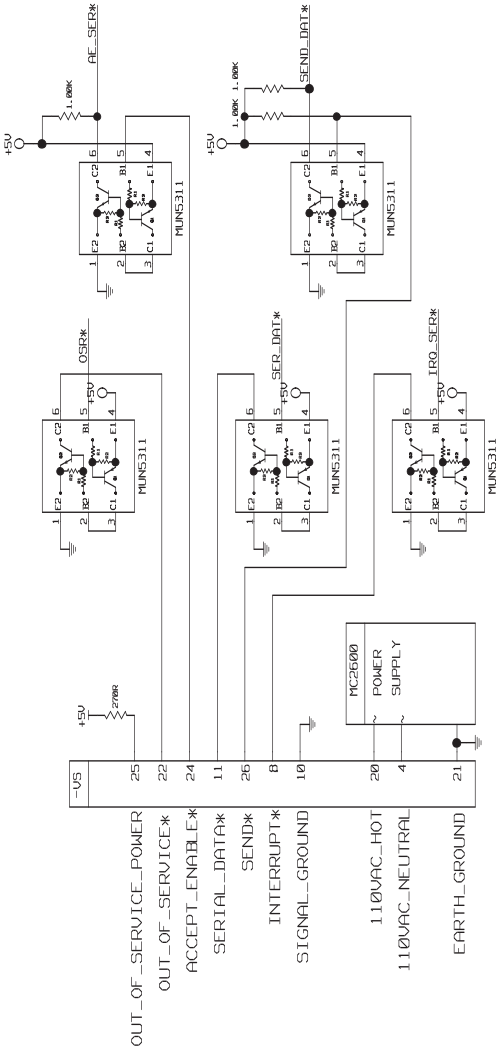
Figure 10



Note: Pin 21 Ground of the 30 pin power connector and the metal mounting plate must be connected to earth ground

MC2600/MC7200 Vend Serial Interface Connections for 30 Pin 110VAC

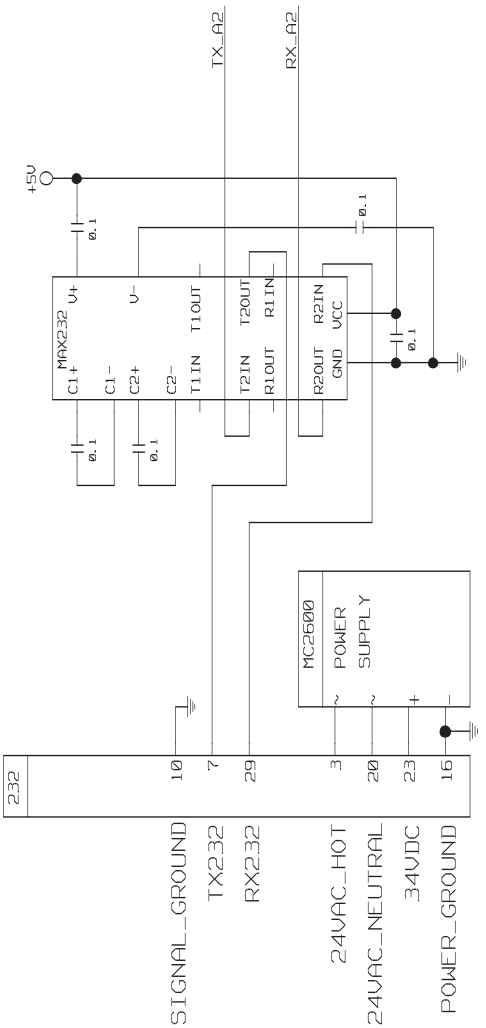
Figure 11



Note: Pin 21 Ground of the 30 pin power connector and the metal mounting plate must be connected to earth ground

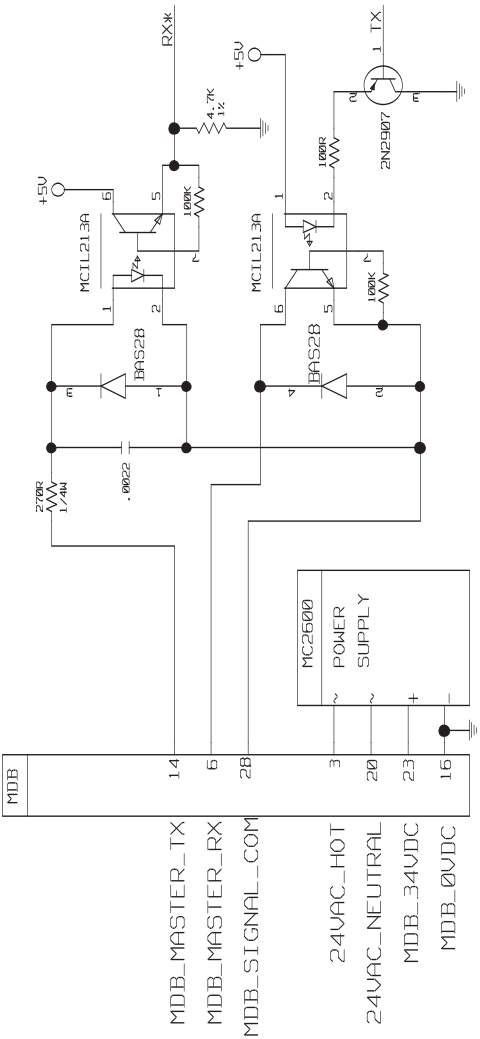
MC2600/MC7200 RS232 Interface Connections for 30 Pin 24VAC/VDC

Figure 12



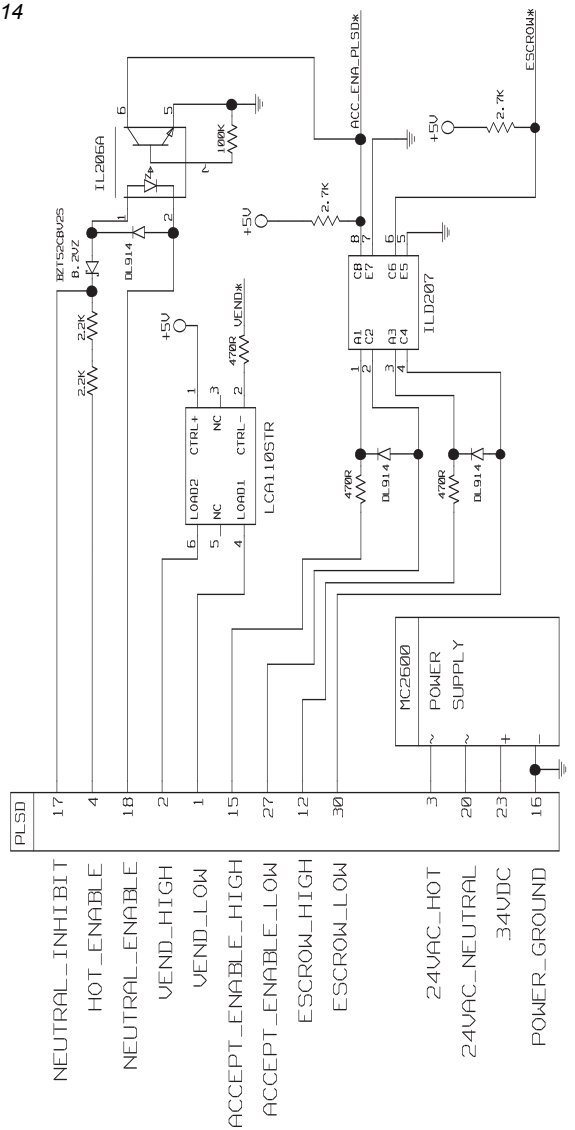
MC2600/MC7200 MDB Interface Connections for 30 Pin 24 VAC/VDC

Figure 13



MC2600/MC7200 Pulsed Interface Connections for 30 Pin 24 VAC/VDC

Figure 14



Available Harnesses

CA/MC Harness part number	Used with MC model number	Description
WMH/455	MC72x4	16 pin to MDB
WMH/549	MC72x3	16 pin to MDB (with diode)
925892	MC72x3	16 pin to Pulsed and 232 Serial
T.B.D. by Money Controls Royton	MC72x3	16 pin to ccTools Diagnostics
925930	MCxxx2	30 pin to MDB
925931	MCxxx2	30 pin to 24VAC Pulsed
925932	MCxxx1	30 pin to 110VAC Pulsed

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