

VFM1 BILL ACCEPTOR Installation Guide

GENERAL INFORMATION

INTERFACE METHODS

The MARS ELECTRONICS® Bill Acceptor (Fig. 1) is designed for use with a changer or electronic controller with bill acceptor interface. The bill acceptor is capable of operating via two pulse interfaces, Low Level or AC/High Level. **The VFM1 bill acceptor automatically configures to these interfaces.**

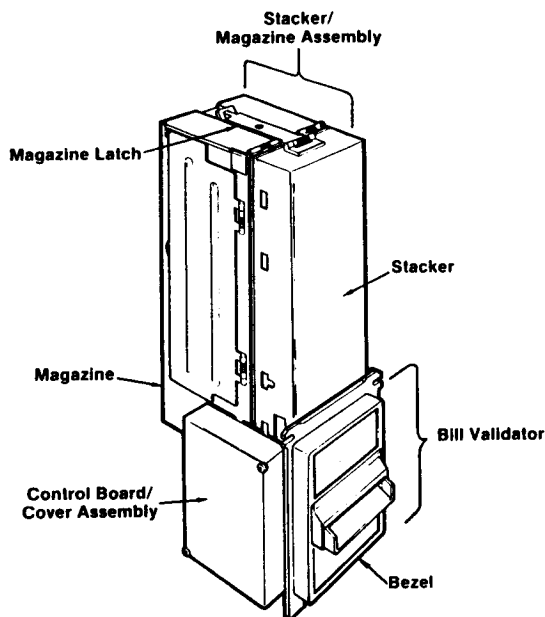
The VFM1 Bill Acceptor accepts \$1 only, regardless of interface used.

Low Level Pulse

Uses 9-pin and 18-pin connectors
Escrows 1 bill

AC/High Level Pulse

Uses 9-pin connector only
No bill escrow capability



OPERATION

The coin changer or controller supplies the logic for bill acceptor operation. As a result, the bill acceptor operates somewhat differently in each application. Variables include:

- accept/no accept function
- number of bills accepted
- exact change operation
- escrow return

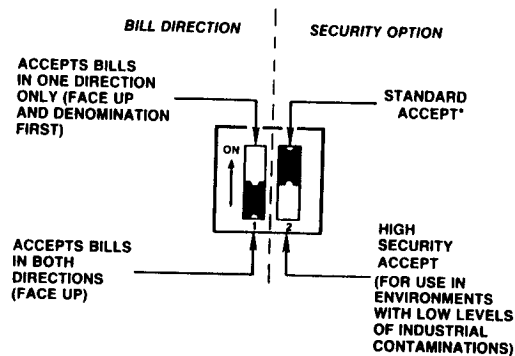
Contact the changer or controller manufacturer for operational details.

MARS ELECTRONICS® Bill Acceptor
FIGURE 1

INSTALLATION GUIDE

Step 1: Set Bill Acceptor Option Switches

The bill acceptor option switches are factory pre-set as shown in figure 2. This allows for standard acceptance and bi-directional insertion of the dollar bill.



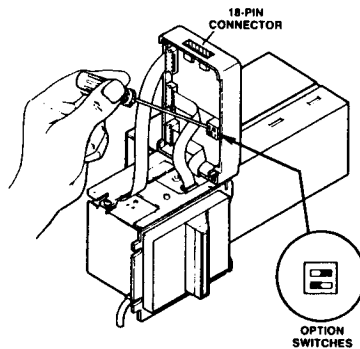
Option Switch Functions
FIGURE 2

***NOTE:** The STANDARD ACCEPT MODE (switch #2 on) recognizes only bi-directional acceptance of the dollar bill, regardless of switch #1 setting.

- **Disengage Control Board/Cover Assembly**

The bill acceptor option switches allow the unit to be customized to the installation. Locate the option switches by loosening the two (2) captive screws at opposite corners of the black cover and disengaging the Control Board/Cover Assembly.

- **Set the switches** (Fig. 3) with a retracted ball point pen or small screwdriver. Do not use a graphite pencil point. Replace the Control Board when switches are set.



Setting the Option Switches
FIGURE 3

Step 2: Mount Bill Acceptor

Mount the bill acceptor using the studs provided in the vendor. To retrofit existing vendors, a special mounting kit may be required.

Step 3: Set Changer Option Switches

Set changer option switches. Refer to the Installation/Operation Guide included with the changer.

Step 4: Connect Harnesses

Connect the harness to the bill acceptor (Fig. 5). Refer to the installation procedure supplied with the harness being used.

Controllers

When used with an electronic controller, the bill acceptor plugs directly into the control board. A special adapter harness may be required.

Step 5: Test the Bill Acceptor

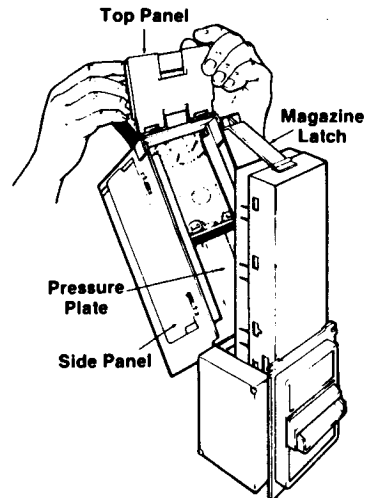
The bill acceptor is now ready for operation. Load the coin changer with coins as required for bill acceptance.

- Insert \$1 bills only. They should be accepted in accordance with changer or controller operation.
- Insert bills black (portrait) side up. Bills should be accepted in one or both directions as selected with Option Switch #1. Insert bills green side up; they should be rejected.

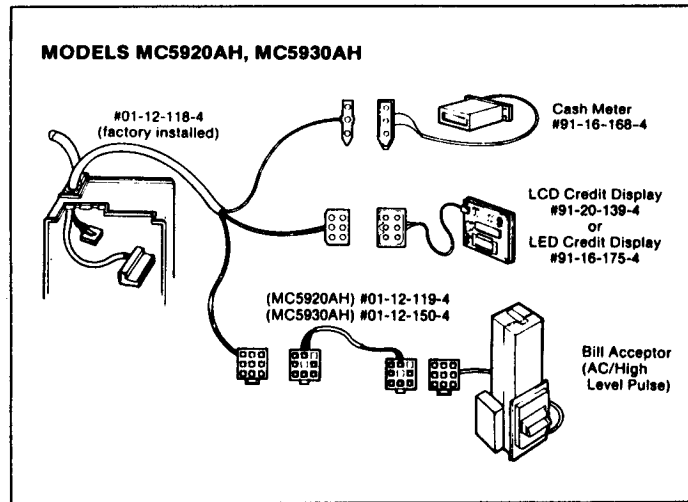
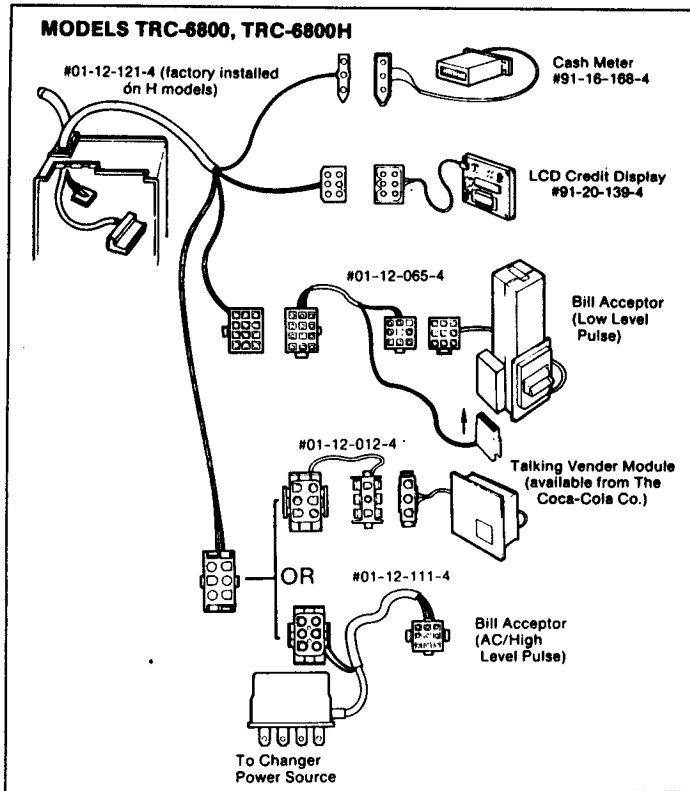
Step 6: Remove Bills

To remove bills from the Magazine (Fig. 4), open the assembly by releasing the magazine latch. Remove bills through the top (all bill acceptors) or side (400, 600, and 1,000-bill magazines) panels.

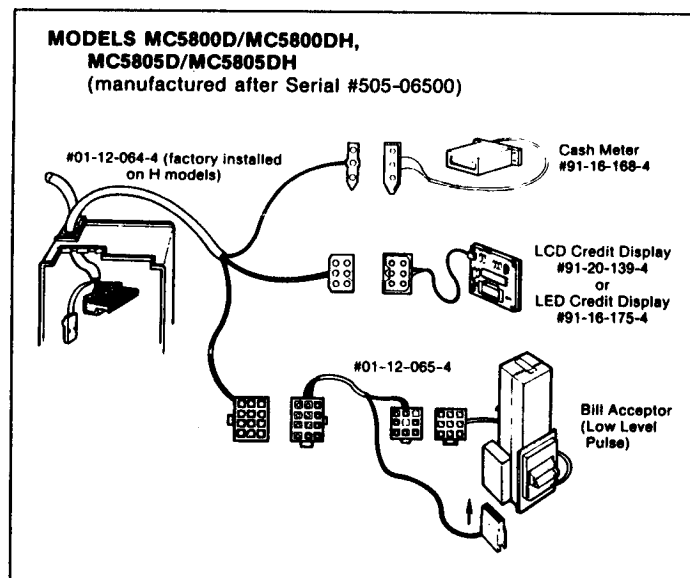
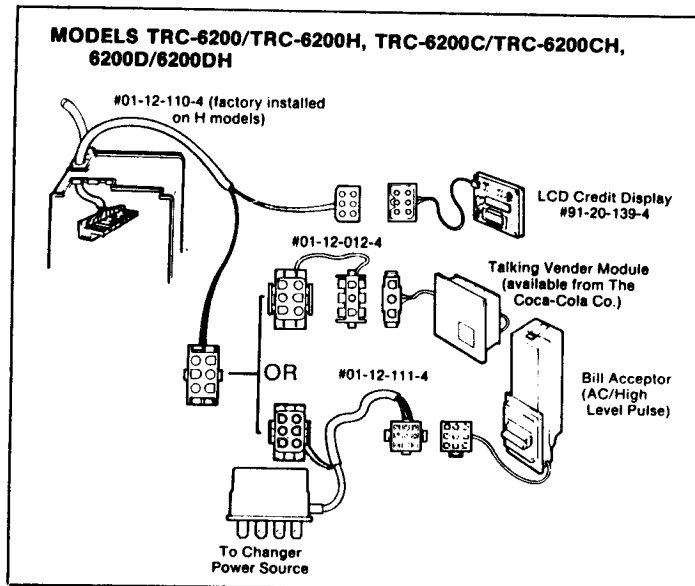
Note: Do not remove bills from inside the bill acceptor by pressing down on the pressure plate. This can damage the Magazine.



Removing Bills from
the Magazine
FIGURE 4

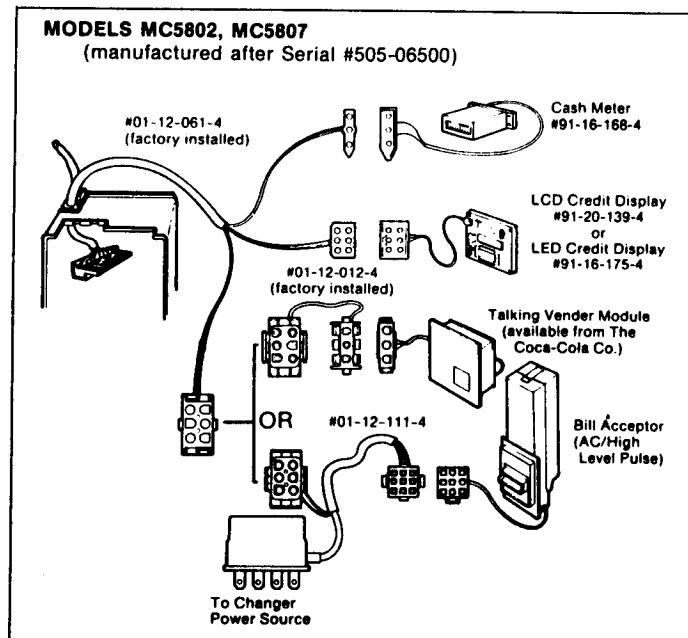
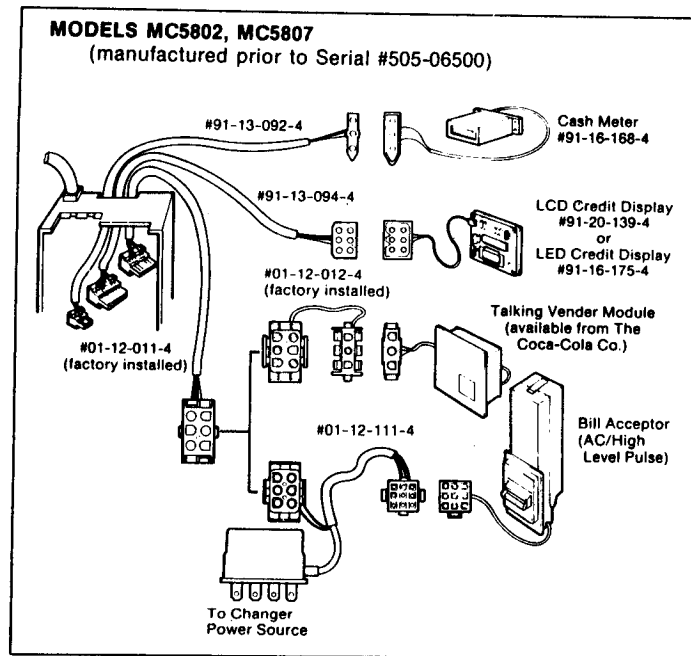


Bill Acceptor/Changer Interface Guide
FIGURE 5



Bill Acceptor/Changer Interface Guide (cont.)

FIGURE 5



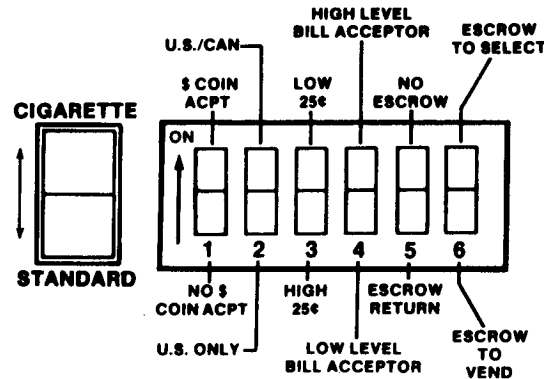
Bill Acceptor/Changer Interface Guide (cont.)

FIGURE 5

MODEL TRC-6800/TRC-6800H COIN CHANGERS

The TRC-6800/TRC-6800H coin changers have the capability of using either AC/High Level or Low Level Interface (Refer to Page 1 for a general description of these interfaces).

The coin changer's option switch #4 selects the type of interface.



TRC-6800/TRC-6800H Changer Option Switches
FIGURE 6

Note: With all TRC-6800 changers, the Accept Gate activates with each bill insertion. This is a signal indicating that a bill has been inserted.

Other coin changers and the interface they support:

- MC5800D — Low Level Interface, Escrow to Vend
- MC5805D — Low Level Interface, Escrow to Select — Cigarette
- MC5802 — AC/High Level Interface, Escrow to Vend
- MC5807 — AC/High Level Interface, Escrow to Select — Cigarette
- TRC6200 — AC/High Level Interface, Escrow to Vend

CONTROLLERS

Most electronic venders interface with the MARS ELECTRONICS® Bill Acceptor. The bill acceptor operates differently with each controller. Contact your vending machine supplier for information on specific applications.

- **U-SELECT-IT MODEL C7/5 CAN SODA & JUICE VENDER
(AC/High Level)**

U-Select-It Bill Acceptor Harness, Part #620740, required.

- **ROCK-OLA (MODELS CCC6E-00, CCC6E-01, CCC6E-02)
(AC/High Level)**

Mars Electronics Bill Acceptor Harness, Part #01-12-096-4, required.

- **VENDO COMPANY CAN SODA VENDER (MODELS 427E and 475E)
(AC/High Level)**

Mars Electronics Bill Acceptor Harness, Part #01-12-096-4, required.

- **AUTOMATIC PRODUCTS SERIES 6000-7000 SNACK VENDER
(Low Level)**

Mars Electronics Bill Acceptor Harness, Part #01-12-078-4, required.

- **AUTOMATIC PRODUCTS GLASS FRONT MERCHANDISER (MODELS 101,
102, 103 — NEW SERIES)
(Low Level) — 24VAC Bill Acceptor Required**

Bill acceptor harness supplied by Automatic Products.

- **RMI 200 COFFEE SERIES AND 300 COLD DRINK (CUP) SERIES
(Low Level) — 24VAC Bill Acceptor Required**

Bill acceptor harness supplied by RMI.

For further operation and maintenance information, contact Mars Electronics Customer Service Department at 1-800-345-8172.

Harness and Switches - High Level

-
- #01-12-121-4**
(Factory Installed on H Models)
- TRC-6800**
Option Switch
- VFM1**
- VFM3**
- #01-12-111-4**
- To Changer Power Source**
- Bill Acceptor**
(AC/High Level Pulse)
- MARS ELECTRONICS**
international

Direction
Security

Harness and Switches - Low Level

-

VFM Series

Electronic Vendors Interface Guide

Manufacturer/Model	VFM Model	Interface			Switch Settings
		Pulse	AC/High	Low	
USI	CD7/5	VFM1-L1-U2C	x		A
		VFM3-L1-U2C	x		C
Rock-Ola	CCC6E	VFM1-L1-U2CS	x		A
		VFM3-L1-U2CS	x		C
Vendo Fresno	427E, 475E	VFM1-L1-U2CS	x		A
		VFM3-L1-U2CS	x		C
Automatic Products	6000, 7000	VFM1-L1-U4C		x	A
		VFM3-L1-U4C		x	C
RMI	200 Coffee, 300 Cold Drink	VFM1-L2-U4C		x	B
		VFM3-L2-U4C		x	A
Lektro Vend	VS99 D Series A, B, C Series	VFM3-L1-U2C		x	B
		VFM1-L1-U2C		x	A
		VFM3-L1-U4C		x	B
		VFM1-L1-U4C		x	A

A.



B.



C.



D.



VFM Series

Electronic Vendors Interface Guide

(Continued)

Manufacturer/Model	VFM Model	Interface			Switch Settings
		Pulse	AC/High	Low	
Rowe	448E2	VFM3-S1-U4C		x	B
		VFM1-S1-U4C		x	A
Wittenborg	FM 400 FM 2400	VFM3-R1-U4C			D
		VFM3-R1-U4C			D
National	Foodtron 425	VFM1-R1-U4C	x		A
		VFM1-L1-U4C	x		A
		VFM3-R1-U4C	x		C
		VFM3-L1-U4C	x		C
	Shoppertron 430	VFM1-R1-U4C	x		A
		VFM3-R1-U4C	x		C
	Hottron 620	VFM1-S1-U4C	x		A
		VFM3-S1-U4C	x		C
	Coldtron 315	VFM1-S1-U4C	x		A
		VFM3-S1-U4C	x		C

A.



B.



C.

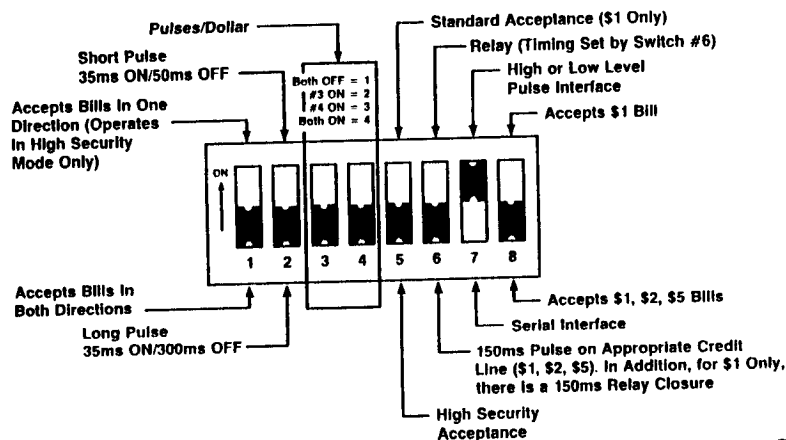


D.



VFM Series

VFM3 Option Switch Functions

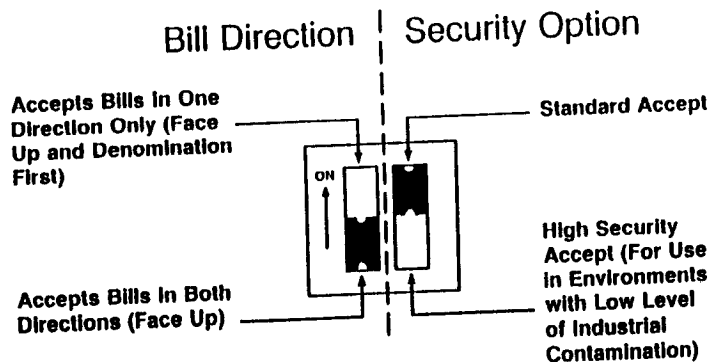


Note: High Security Acceptance is for Use in Low Level Contamination Environments

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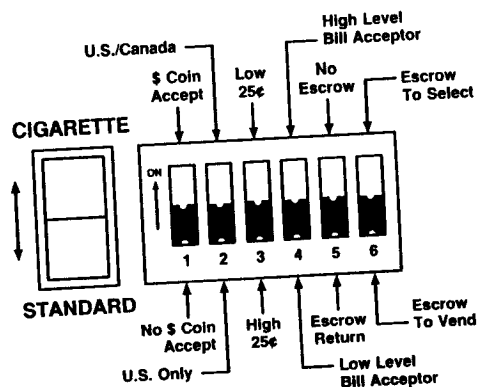
VFM Series

VFM1 Option Switch Functions



VFM Series

TRC-6800/TRC-6800H Option Switches



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