

Conversion Kit FLM-1 Hamilton HV to Mars

This kit and instruction set are intended for those converting a *front load changer* from the HV series validator to a Mars 2000 series bill acceptor. Please read all the instructions before beginning the conversion.

Installation

Begin by turning the power off to the changer. Remove the HV validator, stacker and mounting bracket. Unplug the heating pad located at the bottom of the original bracket. This pad will not be required on your new validator.

When the wiring connector is removed from the stacker the *stacker by-pass plug* **MUST** be inserted into the removed connector. This by-pass plug should be attached with a tie wrap to the end of stacker harness.

Remove small exterior plate from the opening and align the supplied template over the opening. Mark the two holes for the new outside plate studs and drill two 5/16 holes. Mount the new outside plate using the existing hardware. Mount the inside plate and fasten with the supplied nuts. Place the new validator into the changer by inserting the nose into the opening. When installed properly the nose will be *midway* thru the outside plate. Remove validator and tighten all fasteners. Install the validator and using supplied nuts firmly tighten but **DO NOT** over tighten these nuts.

On some early cabinets the outside plate is attached with small drive rivets. On these models simply align the supplied template with the outer perimeter of the original plate. Make sure the wide fastener spacing is on top. I suggest that only the holes for the studs in the new outside plate be drilled at this time. After test fitting the new validator the remaining holes can be drilled..

Wiring and testing

The wiring harness of the Mars will simply plug into the existing Hamilton harness. It is suggested that you mount the harness "box" to the side of the cabinet using the attached 2 sided tape in order to relieve stress on the wiring connections.

If your changer controller requires a new eprom, this should be installed before testing. Follow the instructions supplied with the eprom.

Restore power to the changer and wait for the Mars to power up. Your unit has been programmed via the programming coupon. A copy has been attached to this sheet. If you desire different acceptance values you may make a copy of the blank coupon found in the Mars instruction manual, fill in the blanks and complete the new program. Complete information can be found in the Mars manual.

It is very important that the pulse, pulses per dollar and interface selection portion of the programming coupon remain as originally programmed. See the attached copy for reference when filling out a new coupon. Also, DO NOT change the dip switch settings. These MUST be left in the off position.

Insert bills of desired denominations and insure that the changer dispenses the correct amount of change. If you have any problems or questions please contact us either by phone or email.

NOTES AND TIPS

The billbox must be in place before the unit will accept bills.

The red light at the rear of the validator will normally burn steady. If the light flashes twice in a pattern check the change level and controller for any "codes" on the green LED. This can sometimes be reset by pressing the white reset button on the controller. In short, if there is any problem with the controller, the unit will not accept bills. Things to check for are the change level, hopper jams, failure to insert the stacker by-pass plug properly, improper eprom installation or new eprom not installed.

Not all model controllers require a new eprom. If there is a possibility that different model controllers may be used (as a spare) please consult with us.

Once again thank you very much for your purchase. I hope this equipment meets your expectations.

