

Hamilton Manufacturing Corporation

1026 Hamilton Dr. Holland, OH 43528 • Phone: 419-867-4858/800-837-5561 • Fax: 419-867-4867 • www.hamiltonmfg.com

EVH Changer Operational Manual

GENERAL INFORMATION

Important Note: Two keys are furnished for door lock and separate keys for stacker lock - Make a permanent record of key numbers.

INSTALLATION

Cabinets are pre-drilled for wall mounting or for mounting on optional base. When installing on a wall, fasten securely, using best type fastener suited to wall construction. If mounted on a base, add weight to base for ballast or fasten the base to floor or wall.

ELECTRICAL

This changer is operated on 120 VAC. A GROUNDED RECEPTACLE IS REQUIRED. Unit may be hard wired with conduit if desired. The changer uses a 2 AMP FUSE.

OPERATION

BILL ACCEPTANCE

Acceptance of particular bill denominations are preset at factory, though can be changed. Bills can be accepted face-up, in either direction.

SWITCH SETTINGS

Switch #	OFF	ON
1	Accepts both directions	Direction set by switch 2
2	Black seal first	Green seal first
3	\$1 - Pulse \$1 relay once \$5 - Pulse \$5 relay once	\$1 - Pulse \$1 relay once \$5 - Pulse \$1 relay five times
4	Accept \$1	Reject \$1
5	Accept \$2	Reject \$2
6	Accept \$5	Reject \$5
7	Accept \$10	Reject \$10
8	Accept \$20	Reject \$20

Note: A special model validator is used in this changer. A different model **cannot** be substituted. Refer to Model/Serial number.

HOPPER

Loading/Unloading

Load coins into hopper by sliding hopper forward. Pour coins into hopper. Unload by gliding hopper out of machine and pour into container.

Empty

Hopper holds about 1000 quarters or \$250. Hopper is empty when coins are no longer touching metal plate located on backside of hopper bowl. There will be approximately 50 coins left on bottom. The OUT OF SERVICE LAMP will flash rapidly, the validator will not accept bills.

INDICATOR LAMPS

There are 3 lamps on power panel:

YELLOW - Lit continually, flashes with each coin paid.

GREEN - Lit when hopper is full, off when hopper is empty. May flash during payout as coins move on sensor plate.

RED - Lit when hopper motor is running.

There are 2 lamps on side of validator:

AMBER - Flashes continually when changer is in service, awaiting bill insertion.

RED and AMBER are lit continually during payout and FLASH WHEN HOPPER IS EMPTY. With a malfunction the RED lamp will flash the error code.

OUT OF SERVICE LAMP

Off during normal operation, flashes error codes 5, 15, 16, 17, 18, and every 12 seconds simultaneously with validator lamps.

RESET BUTTON

Resets only error codes of 5, 16, 17, 18 flashes. Other error codes are reset by unplugging machine.

SERVICE

Only the following error codes can be resolved by the operator.

4 Flashes - Check for bill or piece of bill stuck inside validator.
Open stacker and look inside.

5 Flashes - Stacker is full or blacker plate is cocked sideways.

16 or 17 Flashes - Coins jamming or no hopper motor run. Check for
lodged coins. Check payout switch. Red lamp on power
panel should light when hopper is running.

18 Flashes - A bill had become jammed inside the validator had gone
into the self-clear mode but was unable to clear bill.
Remove bill by opening stacker or pulling out of front.

For all other error codes which do not reset - contact HAMILTON or a FACTORY
AUTHORIZED SERVICE CENTER.

ERROR CODE CHART

Count	
FLASHES	PROBLEM
Flashing	
Rapidly	Hopper Empty
2	Front adjust
3	Stack adjust
4	Rear sensor blocked
5*	Stacker Motor (Full/Run error)
6	Drive motor
7	Slipping on rear sensor
8	Enable off during transit
9	Short bill
10	Long bill
11	Bill denomination disabled
12	Invalid bill (Bad bill/feed)
13	Feed (Front entry during transit)
14	Sequence
15*	Stringing (Resets after 10 minutes)
16*	Hopper payout switch stuck
17*	Hopper jammed time-out (No coin count)
18*	Bill jammed (self clear mode)
Once every	
*12 seconds	Coin count after payout
*Codes flash simultaneously with OUT OF SERVICE LAMP.	

INTERIOR PARTS

HAMILTON
MODEL EV-H
PARTS INDEX LIST

NO.	PART NO.	PART DESCRIPTION
1	61-0516B	EV-H CABINET COMPLETE
2	61-0559A	EV-H DOOR ASSEMBLY
3	63-5060A	EV LOCK ASSEMBLY
4	47-0080	OUT OF SERVICE LAMP
5	60-0039	EV-H COIN CUP
6	71-0000B	VENDING VALIDATOR, EV-H
7	49-1080A	EV-H CONTROL PAN
8	50-0501A	EV-H HOPPER
9	60-0037	EV-H COIN CHUTE

PARTS NOT SHOWN

PART NO.	PART DESCRIPTION
48-0027B	EV-H POWER CORD
71-8550B	VALIDATOR LOGIC HARNESS
47-0038	FUSE 1 AMP FB

LIMITED WARRANTY AGREEMENT OF HAMILTON MANUFACTURING CORP.

Hamilton Manufacturing Corp., an Ohio Corporation, ("Seller") warrants to Purchaser that all new equipment shall be free from defects in material and factory workmanship for a period of one (1) year from the original shipping date. Hamilton Manufacturing Corp. further warrants if any part of said new equipment in Seller's sole opinion, requires replacement or repair due to a defect in material or factory workmanship during said period, Seller will repair or replace said new equipment. Purchaser's remedies and the liabilities and obligations of Seller herein shall be limited to repair or replacement of the equipment as Seller may choose, and Seller's obligation to remedy such defects shall not exceed the Purchaser's original cost for the equipment. Purchaser EXPRESSLY AGREES this is the EXCLUSIVE REMEDY under this warranty. There are no other express or implied warranties which extend beyond the face hereof. All warranty repair service must be performed by either a Factory Trained Service Representative or **HAMILTON MANUFACTURING CORP., 1026 Hamilton Drive, Holland, Ohio 43528 PHONE (419) 867-4858 or (800) 837-5561, FAX (419) 867-4867.**

The limited warranty for new equipment is conditioned upon the following:

1. The subject equipment has not, in the Seller's sole opinion, been subjected to: accident, abuse, misuse, vandalism, civil disobedience, riots, acts of God, natural disaster, acts of war or terrorism.
2. The Seller shall not be liable for any expense incurred by Purchaser incidental to the repair or replacement of equipment and Purchaser shall assume full responsibility for any freight or shipping charges.
3. The coverage of this warranty shall not extend to expendable parts.
4. Purchaser shall have a warranty registration card on file with Seller prior to any claim in order for warranty protection to apply.
5. No warranty coverage is applicable to any equipment used for currency other than that specified at the time of the purchase.
6. Seller expressly disclaims any warranty that counterfeit currency will not activate said equipment.
7. Seller expressly disclaims any warranty for any losses due to bill manipulation or theft or loss of cash under any circumstances.

Seller further warrants all repair or service work performed by a factory trained representative or Hamilton Manufacturing Corp. for a period of ninety (90) days from the date the repair or service work was performed. Purchaser's remedies and the liabilities and obligations of Seller herein shall be limited to repair or replacement of equipment as Seller may choose, and Seller's obligation to remedy such defects shall not exceed the Purchaser's depreciated value of the equipment. Purchaser EXPRESSLY AGREES this is an EXCLUSIVE REMEDY under this warranty. There are no other express or implied warranties on repair or service work performed by a factory trained representative or Hamilton Manufacturing Corp. which extend beyond the face hereof.

(See next page for additional provisions)

The limited warranty for repair and service work is conditioned upon the following:

1. The subject equipment has not, in the Seller's sole opinion, been subjected to: accident, abuse, misuse, vandalism, civil disobedience, riots, acts of God, natural disaster, acts of war or terrorism.
2. The Seller shall not be liable for any expense incurred by Purchaser incidental to the repair or replacement of equipment and Purchaser shall assume full responsibility for any freight or shipping charges.
3. The coverage of this warranty shall not extend to expendable parts.
4. Purchaser shall have a warranty registration card on file with Seller prior to any claim in order for warranty protection to apply.
5. No warranty coverage is applicable to any equipment used for currency other than that specified at the time of the purchase.
6. Seller expressly disclaims any warranty that counterfeit currency will not activate said equipment.
7. Seller expressly disclaims any warranty for any losses due to bill manipulation or theft or loss of cash under any circumstances.
8. No person or entity other than a factory trained representative or Hamilton Manufacturing Corp. has performed or attempted to perform the subject repair or service.

THIS AGREEMENT IS MADE WITH THE EXPRESS UNDERSTANDING THAT THERE ARE NO IMPLIED WARRANTIES THAT THE EQUIPMENT SHALL BE MERCHANTABLE, OR THAT THE GOODS SHALL BE FIT FOR ANY PARTICULAR PURPOSE. PURCHASER HEREBY ACKNOWLEDGES THAT IT IS NOT RELYING ON THE SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH EQUIPMENT SUITABLE FOR ANY PARTICULAR PURPOSE AND THAT THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THAT WHICH IS DESCRIBED HEREIN.

The Purchaser agrees that in no event will the Seller be liable for direct, indirect, or consequential damages or for injury resulting from any defective or non-conforming new, repaired or serviced equipment, or for any loss, damage or expense of any kind, including loss of profits, business interruption, loss of business information or other pecuniary loss arising in connection with this Limited Warranty Agreement, or with the use of, or inability to use the subject equipment regardless of Sellers knowledge of the possibility of the same.

Hamilton Manufacturing Corporation

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