

Wiring Diagram Model 62001



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MADE IN U.S.A.



Model 62001

High Speed Letter Opener

Specifications

Functional

SpeedUp to 17,500 per Hour
 Maximum Envelope Thickness1/4"
 Slitting DepthAdjustable from 1/16" to 3/16"
 Load Capacity1" to 3" (Varies according to contents & weight)

Physical

Dimensions12-1/4" H x 21-1/4" W x 14 3/4" D (machine only)
 Machine Weight33 lbs. (machine only)

Electrical

PowerModel 62001 115 VAC, 1.3 Amp

Introduction

Thank you for selecting the Martin Yale Model 62001 High Speed Letter Opener. The Model 62001 is an automatic letter opener capable of processing up to 17,500 mixed envelopes per hour and makes it possible to handle large volumes of different sized envelopes without pre-sorting. Please review this manual in its entirety before attempting to operate your Model 62001. Thorough understanding of this information will help eliminate most operator-associated errors and ensure years of trouble-free performance.

WARNING: *Keep hands clear of moving belts.*

WARNING: *Never connect power to the opener until you are ready to set up and operate your Model 62001. This machine contains moving parts. During setup, operation, and maintenance keep hands, hair, loose clothing, and jewelry away from all moving parts. Serious bodily injury could result. Service, or disassembly of covers should only be attempted with the power disconnected and locked out.*

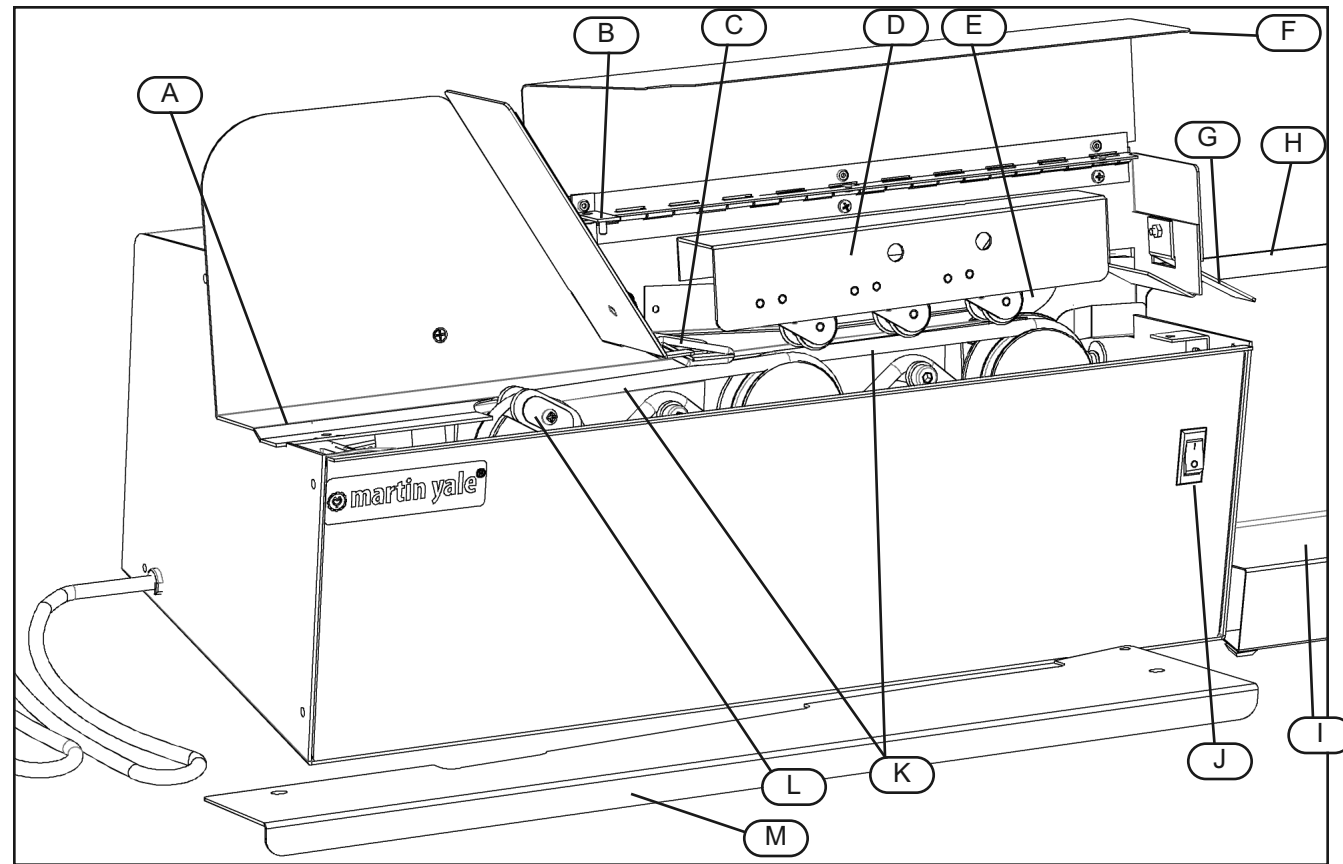


Figure 1

1.0 Parts

- | | |
|-------------------------|----------------------------|
| A. Rear Deck | H. Scrap Bin |
| B. Safety Interlock | I. Catcher Assembly |
| C. Retarder | J. Power Switch |
| D. Feed Roller Assembly | K. Feed Belts |
| E. Blade Assembly | L. Exciter Pulley Assembly |
| F. Front Cover | M. Front Deck (Removed) |
| G. Plate Deflector | |

2.0 Unpacking

Carefully unpack the letter opener. Place all packing materials back in the shipping box and store the box for any future shipment of the letter opener. Inspect the letter opener and all accessories for shipping damage. If any damage is found, contact the carrier immediately.

ATTENTION: For equipment that plugs in, the socket/outlet shall be installed near the equipment and shall be readily accessible.

3.0 Features

The Martin Yale Model 62001 High Speed Letter Opener is a precision-engineered mail handling machine embodying unique design features that make it possible to handle large volumes of different sized envelopes without pre-sorting.

Before operating the Model 62001, please look over the machine to familiarize yourself with these design features and how they function.

7.0 Troubleshooting

Caution: Never attempt to remove anything from the letter opener with the power 'ON' Make sure the power is turned 'OFF' and the machine is unplugged.

Several of the most commonly encountered problems are listed below along with the most common causes and remedies.

ATTENTION: Envelope jams may cause the Feed Belts to come off the pulleys. If this occurs, remove the Front Deck and reinstall the belts.

Problem	Possible Cause	Remedy
7.1 Envelopes Jam	Scrap build-up in feed area and blade assembly area	Clear jam, clean as outlined in section 6.1
	Scrap bin filled beyond capacity	Clear jam and empty scrap bin. Empty regularly during machine use
	Envelope stack too heavy	Reduce stack height to 1"
7.2 Feeding Problems	Feed belts dirty	Clean as described in section 6.2
	Envelope too thick	Make sure letter thickness is no more than 1/4"
	Retarder too low	Raise retarder
7.3 Envelopes Only Partially Cut	Double feeding	Lower retarder
	Envelopes hitting scrap bin	Reposition catcher assembly
7.4 Envelope Contents Cut	Cut adjusted to wide	Set the cut width adjustment to a narrower setting
	Envelopes not tamped	Prepare mail as outlined in section 5.2
7.5 Not Cutting or Abnormal Noise	Blades worn or lubrication needed	Lubricate blades or replace
7.6 Will Not Run	Paper jam	Unplug opener and clear jam
	Cover not closed	Make sure front cover is closed
	Power disconnected	Try the opener in a known good outlet
	Thermal breaker tripped	Let the Model 62001 cool for at least 1/2 hour, then try again
	Fuse blown (non-resettable)	Replace fuse
	Electrical malfunction	Call Martin Yale customer service
7.7 Motor Runs, Belt Not Rotating	Timing belt disconnected from motor or belt broken	Connect or replace belt

6.3 Retarder maintenance

The retarder utilizes stationary o-rings that will wear flat spots over time. Periodically remove the retarder and reposition them to expose new surfaces.

6.3.1 Retarder Removal

Caution: Make sure the power is turned 'OFF' and the machine is unplugged. Note position of top edge of retarder in relation to arrow for installation. Loosen and remove thumb nut, lift retarder from mounting stud. Remove each o-ring from the end groove and then lift out of slot. Install in reverse order of removal.

6.3.2 Retarder Adjustment

The top edge of the retarder has been factory set to line up with the arrow point. This setting will allow the opener to function correctly under most conditions. Small adjustments can be made to compensate for wear, excess stack weight, or above average letter thickness. Loosen thumbnut and slide up or down as needed. Most if not all adjustments should stay within the width of the arrow.

6.4 Blade Maintenance

For each 40,000 pieces of mail processed, coat both the upper and lower blades with a blade emollient such as Premier Brand Trim Ease Lubricant (Martin Yale #MRS037046, available through your Martin Yale Dealer).

6.4.1 Feed Roller Assembly Removal

Caution: Make sure the power is turned 'OFF' and the machine is unplugged. Place screwdriver through each hole in front of assembly. Loosen each phillips head screw approximately one turn. **NOTE: Do not remove screws.** Slide assembly towards retarder while lightly pulling outward. Install in reverse order of removal.

3.1 Feed Mechanism

An exclusive feed design mechanism feeds many different size envelopes without pre-sorting and is virtually jam proof.

* Note the twin spiral feed belts (K, Fig. 1). Their spiral counterclockwise action shuttles envelopes against the back of the deck for precision slitting. Note that the belt at left is angled more sharply. This "pre-feeds" envelopes to the belt at right.

* The feed roller assembly (D, Fig. 1), another Model 62001 feature, acts to further assure that different sized pieces will be shuttled inward and held against the back of the deck.

* The retarder (C, Fig. 1) prevents jamming at the loading end. Utilizing a flexible material, the retarder is capable of handling a wide variety of envelope thicknesses. This effectively prevents entry of more than one piece of mail at a time.

The combined action of these interrelated parts eliminates many of the problems associated with conventional mail opening machines and explains why the Model 62001 can deliver a high speed capacity of 17,500 mixed envelopes per hour.

3.2 Feed Roller Assembly

The feed roller assembly (D, Fig. 1), utilizes independent spring loaded rollers. Each roller applies individual pressure to compensate for letters of varying thickness. This action assures envelopes are guided straight into the blade assembly (E, Fig. 1).

3.3 Blade Assembly

Self-sharpening blades made of precision steel cut a measured strip from each envelope, whether fed face-up or face-down. The control knob at right (Fig. 2) adjusts the blade assembly and permits the operator to vary the width of cut from wide to fine.

3.4 Catcher Assembly

The catcher assembly (I, Fig. 1) receives all opened envelopes as they leave the blade assembly. The plate deflector angles envelopes downward to aid stacking. A removable scrap bin (H, Fig. 1) keeps scrap separate from opened envelopes for easier disposal.

3.5 Split Deck

Interiors of most mail opening machines are inaccessible without the removal of the entire operating assembly. The Model 62001 has a unique split deck feature which solves that problem. The deck is split lengthwise into two halves, front (M, Fig. 1) and rear (A, Fig. 1). The front half is removable, making cleaning, inspection and repair of the interior of the letter opener easier.

3.6 Exciter Pulley Assembly

The exciter pulley assembly has the effect of separating the individual envelopes so that only one envelope is fed at a time.

3.7 Safety Interlock

The tab of the safety interlock (B, Fig. 1) is released whenever the front cover (F, Fig. 1) is lifted. Power is automatically cut which shuts off the machine so that the operator never comes in contact with moving parts.

3.8 Automatic Resetting Thermal Motor Protection

In the unlikely event of a jam or other machine malfunction, the motor may automatically shut down due to overheating. The thermal breaker will then self reset after the motor cools to normal operating temperature. **Caution: The machine may start running unexpectedly when an overheated motor cools to normal operating temperature.**

3.9 Self-sharpening Blades

The blades are precision ground of high carbon steel. As noted, they adjust for width of cut and are self-sharpening. **Note: Self-sharpening action is continuous whenever mail is not going through the opener and will cause a whirring noise. This is normal.**

4.0 Installation and Set-up

4.1 Installation

Place the Model 62001 on a flat, level surface where it will be used. Make sure ample space is provided for the catcher assembly. The cooling slots on the machine back should be unobstructed. The socket-outlet shall be installed near the equipment and shall be easily accessible.

4.2 Attach the Plate Deflector

This is a one-time only installation. Look for the plastic packet inside the shipping carton. It contains the plate deflector and hardware. Simply insert in slot and attach as shown. (See Fig. 2)

4.3 Align the Catcher Base

The catcher assembly simply sits on the exit side of the opener in a position to catch processed envelopes as they are ejected from the machine (See Fig. 1 for placement). The scrap bin lies in the narrow recess of the catcher assembly. The assembly then is aligned so that the front wall of the scrap bin butts against the front edge of the scrap chute (Fig. 2).

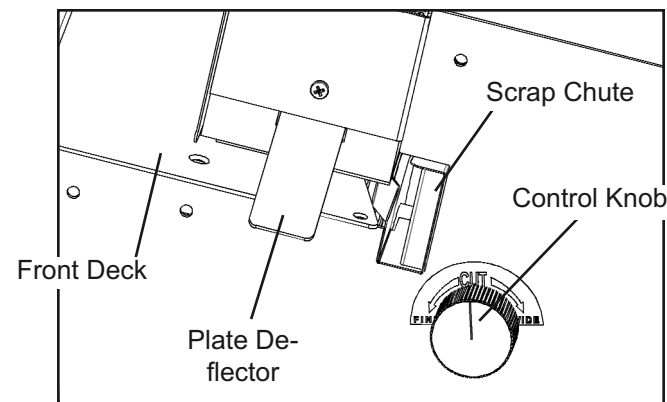


Figure 2

5.0 Operation

5.1 Machine Preparation

Check the control knob (Fig.2) for width of cut desired, from wide to fine.

NOTE: Wider settings will produce more manageable chads with little to no curl. The cut should be deep enough to open envelopes cleanly but fine enough to insure that the blade does not come into contact with contents such as checks and money orders, coins, staples and paper clips. Make sure the Model 62001 is 'OFF' as indicated by the 'O' on the power switch (J, Fig. 1). Plug the machine into an appropriate power outlet.

5.2 Mail Preparation

Using a table or other flat surface, hand jog (tamp while holding the mail loosely) a handful of mail (approx. 1" high stack) so all contents in the envelopes is shifted away from the edge to be cut. Lightly fan the stack to insure that envelopes are separated.

NOTE: Some envelopes may open easier on the bottom edge rather than the top. The edge entering the Model 62001 should be free of protruding surfaces that could snag on machine parts. Envelopes with curled edges or torn flaps may require straightening.

NOTE: Severely damaged letters may require removal and hand processing.

5.3 Mail Processing

- 1) Load prepared envelopes, with the edge to be cut towards the back of the deck, at the left side of the machine.
- 2) Turn the machine 'ON' by depressing the power switch at right (J). The Model 62001 will now feed and slit the loaded envelopes.
- 3) The opened envelopes should now start processing and stacking in the catcher assembly. Do not let the envelopes accumulate higher than 4 inches, as this may cause a jam at the exit end.
- 4) Remove chads regularly by lifting out the scrap bin (H) and emptying.

5.3.1 High production routine with machine running

- 1) Prepare 1" stack and load stack
- 2) Repeat 3 times
- 3) Remove opened 4" stack
- 4) Repeat steps 1 through 3 until scrap needs emptied
- 5) Remove scrap and repeat steps 1 through 4

6.0 Routine Maintenance

6.1 Housekeeping

Keep the Model 62001 clean. Smooth functioning of the Model 62001 requires daily removal of accumulated scrap with a soft bristled brush. If scraps are stuck between blades, remove these also. Be sure to check machine before each use for signs of such accumulation. Periodically remove the front deck for inspection of interior.

6.1.1 Front Deck Removal

Caution: Make sure the power is turned 'OFF' and the machine is unplugged. Unscrew the two cross head screws, one on the left and one on the right, and lift off the front deck. **Note: The front deck may lightly stick to the insulating strip that it sets on.** Install in reverse order of removal.

6.2 Feed belts

Approximately once for every twenty hours of machine operation, clean the feed belts with soap and water. Turn the machine off and on repeatedly to make sure that the entire lengths of the belts are cleaned. With a soft bristled brush, periodically remove rubber buildup on the belt tensioners located under the front deck.