

Martin Yale 970A Bursting Machine

Instruction Manual



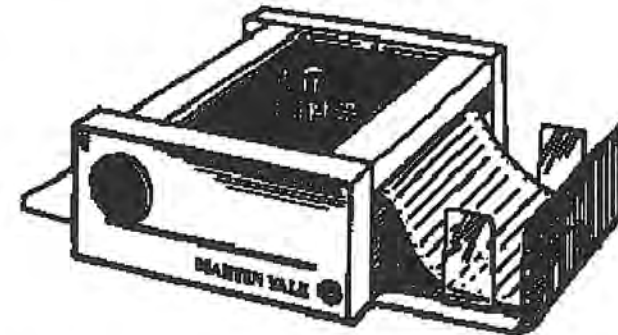
Provided By

MyBinding.com®
When Image Matters.

Trouble Shooting

Problem	Possible Cause	Solution
• Unit will not run	<ul style="list-style-type: none"> • Power cord unplugged • Defective power switch • Defective micro switch • Safety cover off • Faulty wiring • Defective power cord • Defective motor • Timing belt broken • Fuse • Rectifier (D.C. only) 	<ul style="list-style-type: none"> • Plug in power cord • Replace • Replace • Put safety cover on • Check & repair • Check & repair • Replace • Replace • Replace • Replace
• Defective bursting	<ul style="list-style-type: none"> • Burst bar loose • Burst bar not adjusted to continuous form length • Rollers slick • Rollers dirty • Roller springs broken/worn • Timing belt defective • Timing belt loose • Incorrect perforations on forms • Loose timing pulleys 	<ul style="list-style-type: none"> • Tighten burst bar knob • Adjust bar to paper length • Clean rollers • Clean rollers • Replace • Replace • Adjust eccentric bushing (#23) • See Form Selection Guide • Tighten 2 set screws on pulleys and thread lock them
• Slitting inconsistent	<ul style="list-style-type: none"> • Dull blades • Housing adjusted too far apart • Forms not centered on unit • Dirty Rollers • Broken/worn slitter springs 	<ul style="list-style-type: none"> • Replace • Readjust • Reposition to center • Clean Rollers • Replace
• Paper will not enter slitter housing	<ul style="list-style-type: none"> • Dull blades • Paper jammed into scrap area 	<ul style="list-style-type: none"> • Replace • Clean out scrap
• Paper wrinkling	<ul style="list-style-type: none"> • Forms not entering machine squarely • Slitter housing too close together 	<ul style="list-style-type: none"> • Reposition form stack inline with machine • Readjust
• Short forms burst at wrong perforation	<ul style="list-style-type: none"> • Wrong perforations on forms 	<ul style="list-style-type: none"> • See Form Selection Guide
• Multiple part forms won't burst	<ul style="list-style-type: none"> • Form entering machine backwards 	<ul style="list-style-type: none"> • Flip form over • See Form Selection Guide
• Static	<ul style="list-style-type: none"> • Static build up • Paper receiving guides too close together 	<ul style="list-style-type: none"> • Replace static tinsel or use M-Y Static Eliminator • Reposition

Operator's Manual For Model 970A Burster



INTRODUCTION

THANK YOU FOR SELECTING A MARTIN YALE 970A BURSTER. YOUR BURSTER HAS BEEN MANUFACTURED TO THE HIGHEST QUALITY STANDARDS AND WITH THE LATEST TECHNOLOGY AVAILABLE. IT IS DESIGNED FOR EASY SETUP AND OPERATION. HOWEVER, WE STRONGLY SUGGEST YOU CAREFULLY READ THESE OPERATING INSTRUCTIONS BEFORE STARTING THE MACHINE. FAMILIARIZE YOURSELF WITH ALL THE FUNCTIONS, SAFETY PRECAUTIONS, AND ADJUSTMENTS DESCRIBED IN THE MANUAL.

DESIGNED AND MANUFACTURED IN AMERICA BY

 **Martin Yale**
INDUSTRIES, INC.

251 Wedcor Ave. • Wabash, IN 46992
Phone: (260) 563-0641 • Fax: (260) 563-4575
website: www.martinyale.com • email: info@martinyale.com

Revised 8/30/02

Part No. M-S027207
When Image Matters.

MyBinding.com

Setup

1. Unpack Burster carefully.
2. Remove top safety cover and peel off protective film from cover.
3. Remove two (2) paper receiving guides and one (1) stacking attachment and place aside. These parts are packaged under the safety cover and are magnetically attached to side frames.
4. The handwheel which is supplied with your Burster and the tool (hex Key) required to affix it are included in a separate package with the burster. The handwheel should be affixed to the shaft on the operator side of the Burster. It should be placed about 1/8" from the side panel and tightened on the flat of the shaft. Make sure the inside of the wheel does not rub the side frame. See figure 3A.
5. Place Burster on a table/desk with the front hanging over the edge of the table/desk. See Figure 3. This will allow scrap trimmings from slitter housings to exit downward (indicated by arrows in Figure 3). A small table or chair may be placed in front of table/desk on which forms stack will be placed (the floor may also be used). Keep all 4 rubber feet on the table/desk. Place a suitable trash receptacle in front of unit, directly below Burster as shown in Figure 3.
6. Unwind cord and route under Burster. Do not allow Burster to rest on power cord.
7. Make sure switch is OFF. Plug power cord into 110/120 Volt 60HZ outlet (220 Volt 50HZ on 220 volt model). Place test forms on chair/floor in front of unit.
8. Read Operation Section of Instruction Manual before bursting forms.

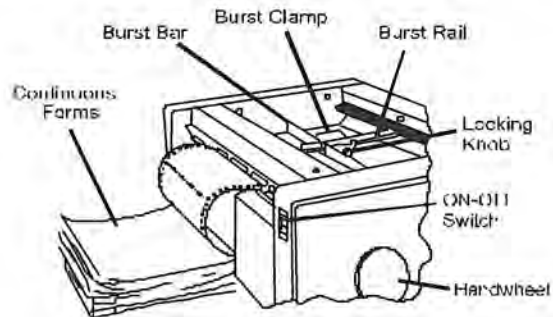


Figure 1

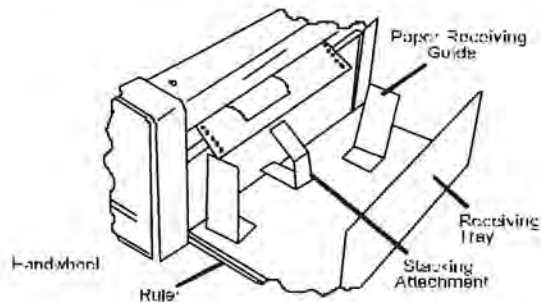


Figure 2

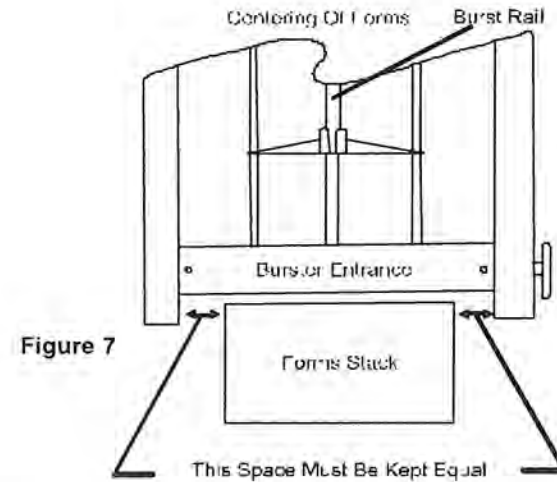


Figure 7

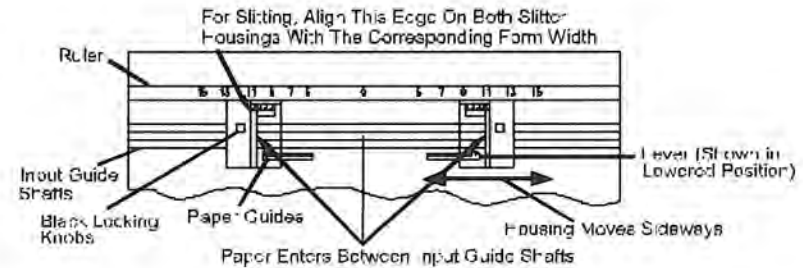


Figure 8

Maintenance

1. Oil roller bushings periodically. Be careful not to get oil on the rubber rollers.
2. Clean rubber rollers periodically with Martin Yale Rubber Rejuvenator.
3. Frequently use Martin Yale Static Eliminator on static strips.
4. Grease nylon gears as required.
5. Check roller tension periodically to determine spring durability.
6. Inspect motor. If motor has oil cups, oil annually.

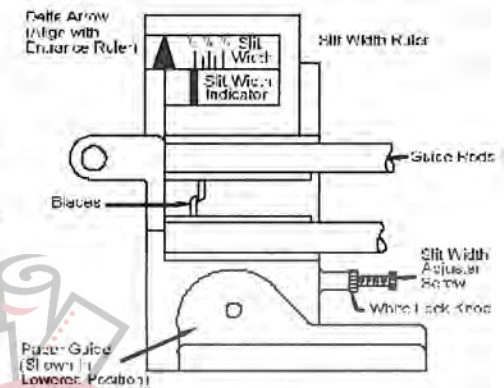


Figure 9

Operation

After the unit has been set up, important adjustments must be made to assure proper bursting. Before operating, read Forms Selection Guide section of this manual.

Note:The machine will not run without safety cover in place.

1. Setting The Burst Bar: With safety cover removed, set the burst bar to the appropriate length of the form to be burst. This is done by loosening the black locking knob at the side of the burst clamp. Then, slide burst clamp and burst bar along burst rail to allow form arrow to align with ruler marking on rail corresponding to the length of form being burst. Tighten black knob securely to prevent its loosening up during operation. See Figure 1. located on page 2 **NOTE:**

This ruler is approximate only. Fine tuning is often required for various types of forms (i.e., weight of paper, perforation strength, etc.).

2. Setting The Receiving Tray: Extend the paper receiving tray to the same settings as the burst bar. A ruler is provided on the edge of the tray. Align rear of unit to the proper ruler number. See Figure 2. If forms being processed are longer than 51/2", place stacking attachment as shown in figure 2. located on page 2. Center attachment on forms exiting Burster. This will prevent forms from flipping over as they exit machine.

3. Loading The Forms: Align continuous forms in the center of the unit. Center of arm must be aligned with the burst rail. Failure to align form will cause mis-tracking and possible jamming. See Figure 7

4. Bursting And Slitting: Locate the two (2) margin slitter housings in the front of the Burster. These housings contain two sets of rotating high carbon steel blades which are used to trim 1/2" to 3/4" margin width off of edges of continuous forms. They may be used to trim both edges, one edge, or not used (burst only).

After locating the housings, loosen the black lock knob on the front of the housings. This will allow the housings to be manually pushed side to side. This is to allow various form widths. Slide the housings to the approximate width of the form to be slit/burst. A ruler is provided for approximate setting. Keep form centered side to side. Align the delta arrow on each housing to the corresponding width on the ruler. The entrance to the Burster is between the two guide rods and also between the two slitter housings. Place form to be burst in proper position as shown in Figure 8. Fine adjust housings by moving very slightly in or out. Form must fit snugly between housings. Excessive side-to-side movement of paper will cause margin width to vary. Lock in place by tightening black lock knobs.

Remove form, locate slit width adjuster screws, and lock knobs. See Figure 9. Loosen white lock knobs by holding adjuster screw and turning lock knob counter-clockwise. Adjust slit width by rotating adjuster screw. The indicator at the front of the housing will show what width margin is being removed. After adjusting for proper slit width with adjuster screw, lock with white lock knob. Replace top safety cover. Turn machine on. Push the lead edge of form into machine. The form will be pulled in as the rollers grab the lead edge. After a few forms have been burst, switch machine OFF.

Check to insure:

- Margin scrap is exiting out of slitter housings and into trash receptacle.
- Slitter housings are positioned properly.

5. Bursting Only: Rotate paper guides to the "up" (12:00) position to block paper from entering slitter housings. Align paper guide edge to proper width on entrance ruler. Keep forms centered. It will not be necessary to fine adjust as in slitting due to the automatic alignment features designed into your unit. Simply avoid crowding the form. See Figure 9.

Replace top safety cover and turn the machine ON. Insert the forms between the slitter housings and guide rods and burst several forms. Check for proper bursting action and accurate tracking between the slitter housings. The slitter housings may need adjusting in or out to control tracking or wrinkling. Simply loosen the black lock knob on ONE side and make fine adjustments, as needed, then lock the slitter down. Allow a few forms to collect on the receiving tray. Switch unit OFF. Place paper receiving guides along side of forms which have collected in receiving tray. Placing paper receiving guides too close together causes improper stacking and jams.

Form Selection Guide

The 970A Series Burster will burst most forms manufactured. However, you must specify the correct form when ordering and feed multiple part forms in the correct direction.

ALWAYS TELL YOUR FORMS SUPPLIER THE FORMS WILL BE MACHINE BURST.

Listed Below Are the Proper Specifications:

A. Margin Width

The 970A is designed to trim 1/2" to 3/4" off the edge of forms; therefore, if you are going to use the machine to remove the margins, you must specify the form wider to allow for margin trim. The machine will handle margins that are pre-perforated; however, we recommend that your forms not have perforated margins.

B. Multiple Part Forms

Your machine will easily handle 3-part carbon forms, 5-part carbonless forms, or slit single-ply forms. In many cases, you can exceed these specifications. Before purchasing forms, we recommend that you test them first.

If your forms are staked rather than glued, you must examine the direction of the hook (staked area) to determine the direction of feeding. See Figure 4

C. Perforations

For forms that are folded at every perforation, specify 5-15 lbs. per inch burst strength. See Figure 5. Short forms that are not folded at each perforation require different perforations. See Figure 6. Using this type of configuration will insure the non-folded perf will have equal burst strength to the folded perforation.

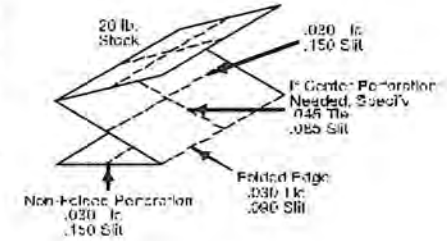


Figure 6

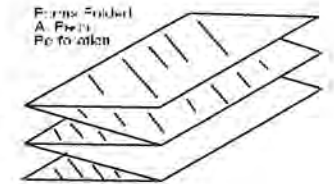


Figure 5

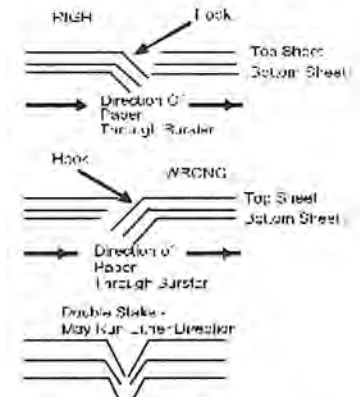


Figure 4

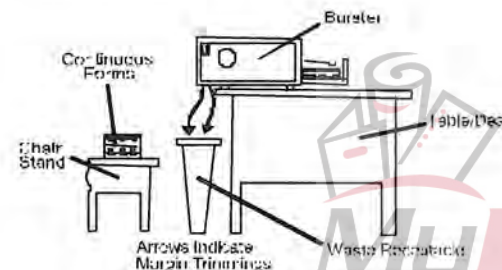


Figure 3

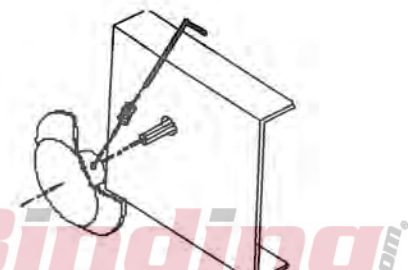
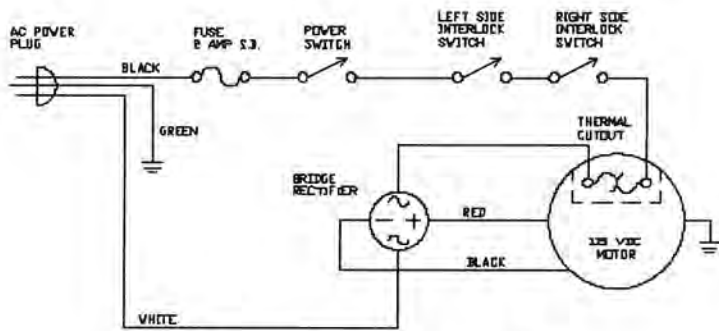


Figure 3A

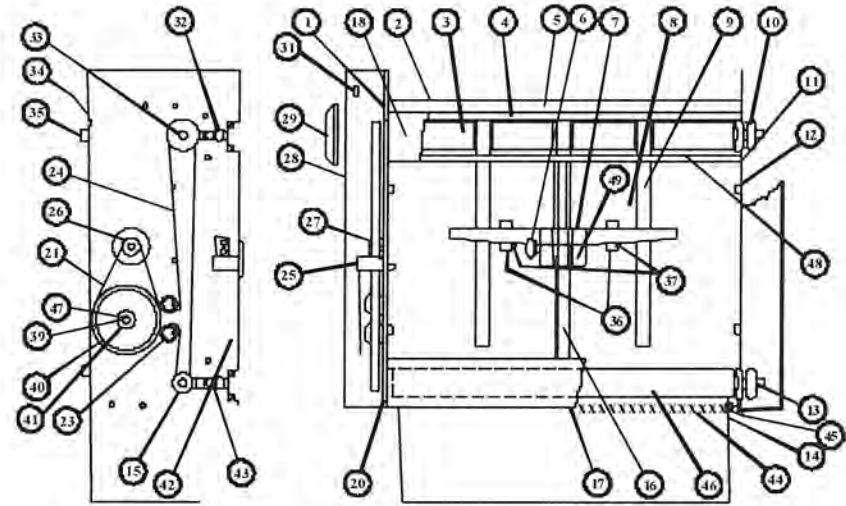


Wiring Diagram

Parts List

(Number shown in parentheses indicates quantity of part required)

1 W-0970001	Right Side Frame	31 M-S033053
2 W-0970021	Enter/Exit plate	32 M-S031059
W-0970059	Upper Shield	33 W-1970024
3 W-A970018	Upper Input Roller	34 M-S037020
4 M-0970023	Strip Support Bar	35 M-S030047
5 M-S015174	Entrance Ruler	36 M-O970032
6 M-S032041	Locking Knob	37 M-O970033
7 W-0970038	Burster Bar	39 M-S013007
8 W-0970005	Burster Table	40 M-S022036
9 W-0970028	Static Strip (3)	41 M-O970044
10 M-0003033	Gears (4)	42 M-O970035
11 W-0970002	Left Side Frame	43 M-S013009
12 M-S030046	Push In Bumper (8)	44 M-S037320
13 M-S010002	Snap Ring (4)	45 M-S031076
14 W-A970036	Stack Tray	46 W-A970017
15 W-1970017	Lower Exit Roller	47 M-S006024
16 M-O970027	Burster Rail	48 M-O970022
17 W-A970025	Rear Roller Cover	49 W-O970030
18 W-0970069	Front Roller Cover	
20 W-0970026	Cover Bracket (4)	Parts Not Shown
21 M-S025012	Timing Belt	W-A021049
23 M-S013048	Eccentric Bushing	
24 M-S025017	Timing Belt	W-A021008
25 M-S033040	Micro Switch (2)	
26 M-S022015	12 Tooth Pulley	M-S045016
27 W-0970034	Micro Switch Bracket (2)	M-S045098
28 M-0970029	Side Cover M-Y Plain	M-S045093
WRO970029	Side Cover M-Y with holes	M-S008066
29 W-A970082	Handwheel ass'y	W-0970055
W-0970068	Lower Shield	W-O380087



- On-Off Switch
- Barrel Spring (4)
- Lower Input Shaft
- Cord Set
- Rubber Bumper Feet (4)
- Roller, Nylon (2)
- Roller Pin (2)
- Long Bushing
- 2-Step Pulley
- Spacer (2)
- Top cover plastic
- Oilite Bushing (8)
- Tinsel, Static (2 feet)
- Tinsel, Spring (2)
- Upper Exit Roller
- Shoulder Bolt
- Support Bar (2)
- Clamp

- D.C. Motor w/Brushes 110V Ass'y
- D.C. Motor w/Brushes 220V Ass'y
- Fuse Block
- Fuse (Slo-Blow) 2A 110V
- Fuse (Slo-Blow) 1A 220V
- Spring Washer (2)
- Belt Guard
- Back Stop (2)

Continued List of Parts Not Shown

- W-0970051
- W-0970052
- M-O970087
- M-O970066
- M-O970067
- M-O095306
- M-S010028
- W-A970090
- W-A970063
- M-S031078
- M-O003036
- M-O095050
- W-O970071
- W-O970074
- W-O970075
- W-O970076
- M-S007110
- M-S005015
- M-S007104
- M-O008651
- MRS045051
- M-S045050
- M-S012014
- W-O095014
- W-O970031
- W-O970078
- M-O970079
- M-S032055

- LS Slitter Housing Set (1)
- RS Slitter Housing Set (1)
- Square Drive Shaft (1)
- Guide Rod (2)
- Bearings, Bronze (2)
- Drive Gears (in Housings)(4)
- Hairpin Clip (2)
- Upper Blade Ass'y (2)
- Lower Blade Ass'y (2)
- Blade Spring (2)
- Plastic Gear (2)
- Gear Stud (2)
- Stacking Attachment
- Indicator (2)
- Right Slit Stop Lever (1)
- Left Slit Stop Lever (1)
- White Lock Knob (2)
- Adjuster Screw (2)
- Paper Guide Pal-Nut (2)
- Eccentric (2)
- D.C. Motor Brush
- D.C. Rectifier
- 3/16 Allen Wrench
- Channel
- Clamp Shim
- Tension Block
- 1/8" Cutter gear
- Knob

