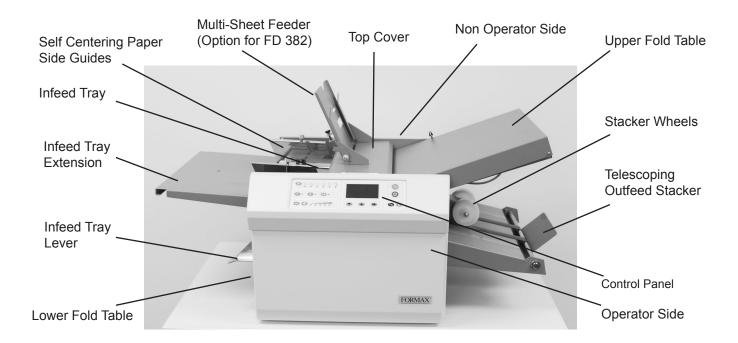
# **FORMAX**®

FD 38X / FD 382 Document Folder

# **TABLE OF CONTENTS**

SUBJECT	PAGE
DESCRIPTION	1
SPECIFICATION	1
UNPACKING & SETUP	2
CONTROL PANEL	4
OPERATION	5
INTERFACE MENU	7
BATCH COUNTING	8
FD 382 CUSTOM FOLD SETUP	10
FD 38X CUSTOM FOLD SETUP	11
OPERATOR SETTINGS	14 - 17
Language	14
Standard Fold override	15
Stacker Override ( FD 38X only )	16
Test Sheet Setting	17
Default Settings	17
MULTI-SHEET FEEDING	18
CROSS FOLDING	19
FD 382 STACKER WHEEL POSITIONING CHART	19
THICK PAPER / HIGH SPEED MODE	20
REMOVING INFEED TIRES	20
OPERATOR MAINTENANCE	21
TROUBLE SHOOTING	22

# **DESCRIPTION**



The FD 38X / FD 382 Folder is designed to perform a wide variety of folds using a variety of paper weights. The fold tables are automatically adjusted for standard folds and custom folds. Documents that are 8  $\frac{1}{2}$ " x 11"/14" and 11" x 17" (A5, A4, A3, B4, B5 & B6) are detected by sensors on the in-feed tray. Batch counting, self-centering side guides, and the capability to cross-fold are added features. There are six pre-programmed standard folds and up to 35 custom folds available. The folder will automatically stop after the last document has been folded.

#### **SPECIFICATIONS**

Speed:	Standard Mode: Up to 16,450/hour, depending on fold type		
	Thick Stock Mode: Up to 20,100/hour, depending on fold type		
Hopper Capacity:	Up to 500 sheets of 20# paper (75gsm)		
Paper size:	Min: 3.5" X 5" (88.9 W x 127 L mm)		
	Max: 12.25" X 18" (311 W x 457 L mm)		
Pre programmed fold types:	Letter 🐧, Zig-Zag 📵, Single 🐧, Gate 🐧, Fold Out 📵,		
	Double Parallel ①		
Pre-Set Paper Sizes:	11", 14", 17", A5, A4, A3, B6, B5, B4		
Languages:	English, Spanish, French, German, Italian & Dutch		
Dimensions	Closed: 33" L x 20" W x 19" H (84 L x 51 W x 48 H cm)		
	Fully Extended: 60" L x 20" W x 19" H (152 L x 51 W x 48 H cm)		
Weight:	74 lbs (34 kg)		
Power:	110V - 240V AC, 50/60 Hz, 2 amps.		
Safety Certifications:	UL & CE Applied For		

# **UNPACKING & SETUP**

- 1. Check package for shipping damage. If there is shipping damage, do not discard the box.
- 2. Remove the machine and packed components from the box. The fold tables, telescoping stacker, Multi Sheet Feeder (standard feature FD 38X, option for FD 382), power cord and cross-fold guide are wrapped separately in the box.

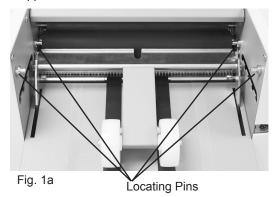
**NOTE:** Two people must lift the machine from the box.

3. Place the folder on a solid stand.

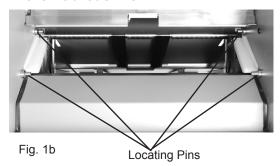
# Install upper and lower fold tables, telescoping conveyor multi-sheet feeder (if equipped) and power cord

Be sure the plates are set firmly on the locating pins
(Fig 1a & 1b). Slide each fold table in until it meets the
first locating pin then push down to set in place.

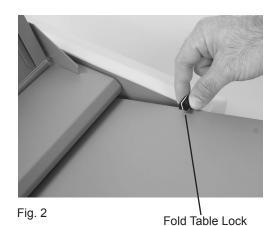
#### Upper Fold Table Pins



Lower Fold Table Pins

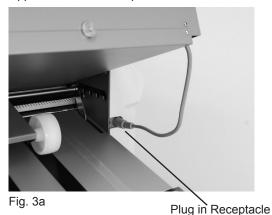


- 2. Lock the fold table into position (FD 38X Only) (Fig. 2)
- 3. Repeat the same steps for the lower fold table.



4. Plug the fold table cables in to the receptacles on the side frame (Fig. 3a & 3b).

Upper Fold Table Receptacle Location

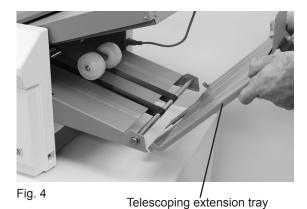


Lower Fold Table Receptacle Location

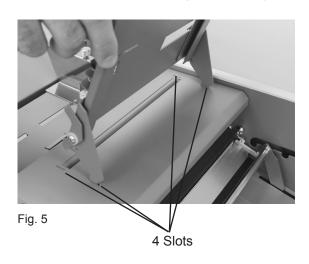


Fig. 3b Plug in Receptacle

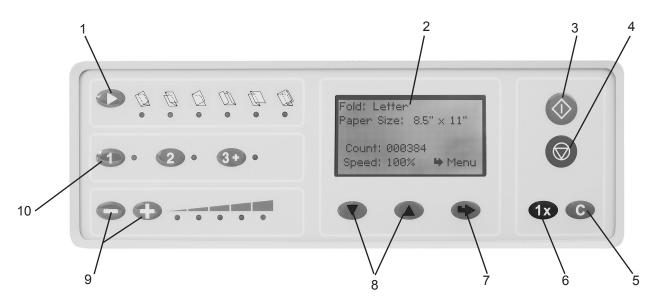
5. Insert the telescoping extension tray into the end of the outfeed conveyor (Fig. 4).



- 6. If equipped, insert the Multi-Sheet Feeder into the four slots located on the top cover (Fig 5).
- 7. Make sure the power switch is in the "OFF" position. Plug the power cord into the power inlet and the wall outlet.



# **CONTROL PANEL**

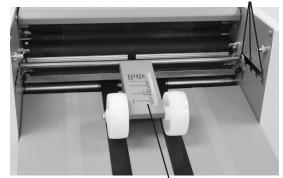


No.	NAME	FUNCTION
1	Standard Fold Button	Select the desired pre-programmed fold.
2	LED Interface	Displays current settings and used for setup and programming.
3	Start Button	Press to start the folder.
4	Stop Button	Press to stop the folder.
5	Clear/Reset Button	Clears operation and returns to main screen. NOTE: this button can be pressed at any time to return to the main screen. Resets the counter and clears fault indications.
6	Test Button "1x"	Test fold documents.
7	Enter Arrow	Used to save settings or advance to the next screen.
8	Up and Down Arrows	Used to scroll up and down through settings or change settings.
9	Speed Control Buttons	Increase or decrease speed
10	Custom Fold Buttons	Select and program a custom fold (see page 5).

# **OPERATION**

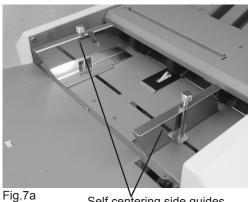
- 1. Place power switch in the ON / "O" position.
- 2. Extend the catch tray as required.
- 3. FD 382 ONLY: Move the stacker wheels to the proper position for the paper size (Fig. 6) (Refer to chart on page 8). Stacker wheels will automatically adjust on the FD 38X.

Stacker Wheel Positions A, B & C



Stacker Wheels Fig. 6

Set the self-centring paper side guides for the width of the paper and lock in position using thumbscrews (Fig. 7a)



Self centering side guides

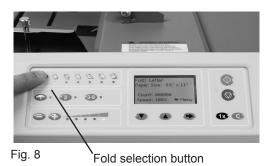
FD 38X ONLY: Adjust in-feed tray tension lever (Fig. 5. 7b) for different paper weights. Move the lever up towards the "-" symbol for lighter paper and down toward the "+" symbol for heavier paper. The middle position is for standard paper weights.



- 6. Raise the in-feed tray lever to lower the in-feed tray.
- 7. Neatly stack paper on the in-feed tray.
- Lower the in-feed tray lever to raise the in-feed tray. 8.

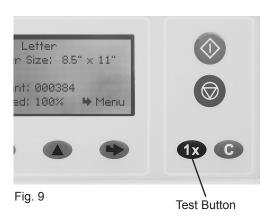
Fig.7b Tension Lever

9. Select the type of fold desired by pressing the fold selection button (Fig 8).

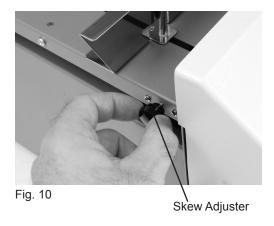


10. Press the "1x" button on the control panel to test and check the folds. (Fig 9).

**NOTE:** When the "1x" or "\( \ightrightarrow\)" button is pressed, the fold tables return to the "home" position then reposition to the programmed setting.



11. If the fold is skewed, remove paper, lower the infeed tray extension and turn the skew adjustment knob left or right to make corrections (Fig 10).



- 12. When satisfied with the test folds, press the "\one " button to start the folder. Press the "\one " button to stop.
- 13. Press the "-" or "+" buttons to adjust machine speed to desired level.

# **INTERFACE MENU**

Fold: Letter

Paper Size: 8.5" x 11"

Count: 000000

Speed: 100% ---- 🖶 Menu

Main Screen - Press the "" button to advance to the Program Menu

# Program Menu

# Batch Counting



Custom Folds Setup Operator Settings

♣ enter

Press the " buttons to scroll through the program settings. Press the "button to enter the selection"

# Batch Counting

ManuBatch

AutoBatch:

♣ enter.

C to exit

Choose between "ManuBatch" or "AutoBatch" - see pages 8 and 9

#### Custom Folds

Select Custom Fold VA



➡ enter

Set up to 35 custom folds on the FD 38X or up to 25 custom folds on the FD 382 (page 10)

# Operator Settings

# Language

Standard Fold Override Stacker Override

select



# Operator Settings

Test Sheet Setting Default Settings

select



Adjustable Operator Settings - see page 14

# **BATCH COUNTING**

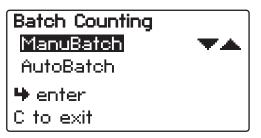
Two options are available for batch counting: ManuBatch for standard batch counting, and AutoBatch for programmed batch counting. Select "Batch Counting" and press the "button to enter batch counting modes.



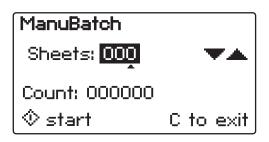
#### ManuBatch

The "ManuBatch" or "manual batch" feature allows you to program the number of sheets you would like to process in a set. When the set is complete, the folder will stop and automatically reset the batch count to the previously set number of sheets. It will then fold the next set when the "\overline{O}" button is pressed.

1. To enter ManuBatch mode, highlight "ManuBatch" on the "Batch Counting" screen using the " buttons. Press the " button to enter.



2. Select the number of sheets to be folded by pressing the "\" buttons. Press the "\" button to start. Press the "C" button to exit to the main screen.



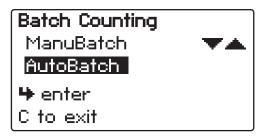
#### **AutoBatch**

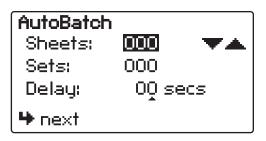
"AutoBatch" or "automatic batch" allows you to batch count with automated features. In the AutoBatch mode you can program the number of sheets you would like to process in a set, the total number of sets and the delay between each set. For example: you can program 10 sheets to be pulled to create a set, then program 100 sets to be processed with a 3-second time delay between each set.

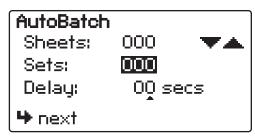
 To enter AutoBatch mode, highlight "AutoBatch" on the "Batch Counting" screen using the "" " "buttons. Press the " button to enter.

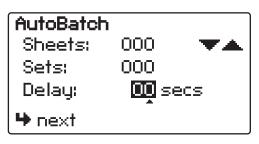
- 2. "Sheets" is highlighted. Press the " \*\* a " buttons to set the number of sheets for each set. Press the " button to enter your selection and advance to the next screen.
- 3. "Sets" is highlighted. Press the "\" a" buttons to select the number of sets. Press the "\" button to enter your selection and advance to the next screen.
- 4. "Delay" is highlighted. Press the " buttons to set the time delay between each set. Press the "button to enter your selection and advance to the next screen.
- 5. Press the "\( \infty\)" button to begin folding. The "\( \infty\)" button can be pressed to edit the settings. Press the "C" button to exit to the main screen.

**NOTE:** If a fault occurs during a set the set will be completed when the fault is reset.











# FD 382 CUSTOM FOLDS SETUP

The FD 382 has 25 custom fold settings that can be stored into memory for recurring jobs with fold settings that vary from the standard fold settings. To create or edit custom folds select "Custom Folds Setup" from the Program Menu screen and press the "\rightarrow" button to enter. See page 13 to help determine the new fold measurements.

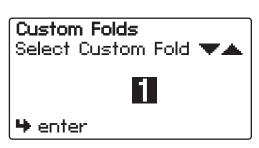
- 1. Select the custom fold number you want to program using the " buttons. Press the " button to enter number and advance to the next screen.
- 2. The current settings for the custom fold will be displayed. Press the "\(\beta\)" button to edit the settings or the "\(\beta\)" to go back and select a different custom fold number.

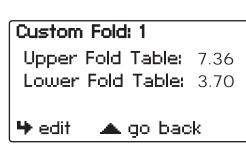
Note: All custom folds are pre-set for a standard 11" C-fold.

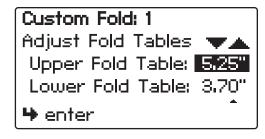
3. Adjust Fold Table screen will be displayed. Use the "b" buttons to change the upper fold table setting. Press the "b" button to enter and advance to the lower fold table setting. Adjust the lower fold table and press the "b" button to enter and advance to the test screen.

4. Press the "1x" button to ensure the proper folds have been entered. If the folds are correct press the "\( \bigcup \)" button to save. If the folds need to be adjusted press the "\( \bigcup \)" button to edit.

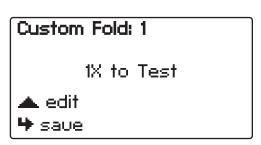
# Program Menu Batch Counting Custom Folds Setup Operator Settings Henter











# FD 38X CUSTOM FOLDS SETUP

The FD 38X has 35 custom fold settings that can be stored into memory for recurring jobs with fold settings that vary from the standard fold settings. To create or edit custom folds select "Custom Folds Setup" from the Program Menu screen and press the "\(\bigstyre{\pi}\)" button to enter. See page 13 to help determine the new fold measurements.

- 1. Select the custom fold number you want to program using the "▼▲" buttons. Press the "♣" button to enter number and advance to the next screen.
- 2. The current settings for the custom fold and stacker position will be displayed. Press the "" button to edit the settings or the "..." to go back and select a different custom fold number.

Note: All custom folds are pre-set for a standard 11" C-fold.

3. Adjust Fold Table screen will be displayed. Use the "b" buttons to change the upper fold table setting. Press the "b" button to enter and advance to the lower fold table setting. Adjust the lower fold table and press the "b" button to enter and advance to Stacker Position screen.

Program Menu

Batch Counting

Custom Folds Setup

Operator Settings

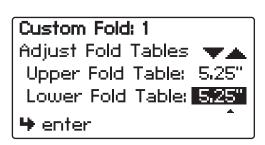
Henter



# Custom Fold: 1

Upper Fold Table: 7.36"
Lower Fold Table: 3.70"
Stacker Position: P1
Pedit Ago back





# FD 38X CUSTOM FOLDS SETUP, cont.

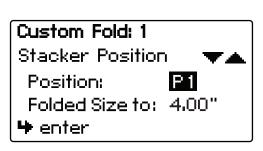
5. There are 10 stacker positions available. Select the one that best matches the size of the folded document. Press " buttons to select the correct position # P0 - P9. Press the " button to enter selection and advance to the test screen.

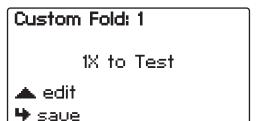
#### Stacker Wheel Positions:

P0 Folded size to: 3.75" P1 Folded size to: 4.00" P2 Folded size to: 4.43" P3 Folded size to: 4.87" Folded size to: 5.30" P4 P5 Folded size to: 5.73" Folded size to: 6.16" P6 P7 Folded size to: 6.60" Folded size to: 7.03" P8 P9 Folded size to: 7.46" and greater

4. Press the "1x" button to ensure the proper fold and stacker positions have been entered. If the folds and stacker position are correct press the "\(\bigstar\*\)" button to save. If the folds or stacker wheels need to be adjusted press the "\(\bigstar\*\)" button to edit.

# Custom Fold: 1 Stacker Position Position: Folded Size to: 3,75" enter



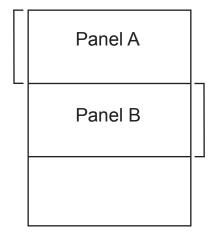


# **Measuring Fold Lengths**

Use the examples below to help determine the fold lengths for custom fold settings.

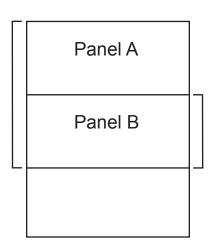
# Example 1: "Z" Fold

- 1. Measure the length of panel "A", enter this number as the upper fold table measurement.
- 2. Measure the length of panel "B", enter this number as the lower fold table measurement.



# Example 2: "C" Fold

- 1. Measure the length of panel "A" + "B", enter this number as the upper fold table measurement.
- 2. Measure the length of panel "B", enter this number as the lower fold table measurement.



# **OPERATOR SETTINGS**

A number of operator settings can be adjusted to personalize the FD 382 / FD 38X. The settings include Language, Stacker Override, Standard Fold Override, and Test Sheet Setting. This section will review each setting and how to adjust them. If needed, there is a Default Settings option that will reset to factory settings. To advance to each setting press the " uttons to highlight your selection and press the "" to select setting.

# Operator Settings

# Language

Standard Fold Override Stacker Override

select.



# Operator Settings

Test Sheet Setting Default Settings

**₩** selecti



🗻 backi

# Language

Six languages are available. The factory default is "English US".

1. To change the language, select "Language" from the Operator Settings screen and press the "\" button to select.

# Operator Settings

# Language

Standard Fold Override Stacker Override

select



2. The language choices will be displayed. Press the

"The buttons to highlight your language. Press the

"" button to enter your selection.

# Language

English US | Spanish

Italian i German

French

Dutch:





#### Standard Fold Override

- It may be necessary to adjust the factory set standard fold settings for a particular fold type and paper size. This can be done in the Standard Fold Override Mode. From the Operator Settings menu select "Standard Fold Override" and press the "\(\blue\)" button to select.
- 2. "Standard folds will be modified from factory settings" will be displayed. Press "\(\begin{align\*} \text{"}\) to continue or "C" to exit and return to the main screen.
- 3. Use the " buttons to select the fold type to be modified. Press the " button to enter.

4. Use the " buttons to select the paper size.

Press the " button to enter.

- 5. Adjust Fold Table screen will be displayed. Use the "buttons to change the upper fold table setting. Press the "button to enter and advance to the lower fold table setting. Adjust the lower fold table and press the "button to enter and advance to the test screen."
- 6. Press the "1x" button to ensure the proper folds have been entered. If the folds are correct press the "+" button to save and return to the main screen. If the folds need to be adjusted press the "+" button to edit.

# Operator Settings

Language

# Standard Fold Override

Stacker Override

Select ▼▲ more

## Standard Fold Override

Standard folds will be modified from factory settings

♦ enter C to exit

# Standard Fold Override

Select Fold



♣ enter

# Standard Fold Override

Select Paper Size

Fold: Letter

Paper Size: 11"

**₩** enter

# Standard Fold Override

Adjust Fold Tables

Upper Fold Table: 7.36"

Lower Fold Table: 3.70"

enter

## Standard Fold Override

1X to Test

🗻 editi

Saue

# Stacker Override - FD 38X only

The FD 38X automated stacker positions may need to be overridden to accommodate different types of paper in order to improve the outfeed stacking (see pg 19 for FD 382 manual stacker wheel adjustments). The positions are preset at the factory and should only be changed if needed. From the Operator Settings screen select "Stacker Override", and press the "\" to select.

1. "Stacker Override Positions are preset by fold settings only change if needed" will be displayed. Press the "" to enter the stacker override setup or the "C" button to exit.

2. Using the " buttons, select the standard fold that the stacker position needs to be adjusted for. Press the " button to enter the selection.

3. Select the paper size using the "\" \textbf{\textit{\textbf{\textit{m}}}\" buttons. Press the "\" button to advance.

- 4. Adjust the stacker wheel position up or down using the "The number shown "P1" is the factory setting for the fold type and paper size selected.
- 5. Press the "" to save. To adjust stacker settings for additional folds, repeat steps 1 through 4.

# Operator Settings

Language Standard Fold Override Stacker Override

select.



# Stacker Override

Positions are preset by fold settings only change if needed

enter

C to exit

# Stacker Override

Select Fold











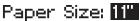
enter

# Stacker Override

Select Paper Size



Fold: Letter



🗣 enter

# Stacker Override

Stacker Position



Fold: 11" Letter



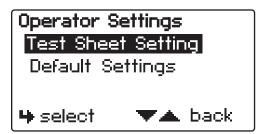
🗣 savel

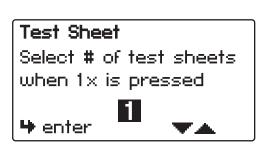
## **Test Sheet Setting**

The number of test sheets can be changed between 1, 2 or 3.

- 1. From the Operator Settings Menu press the "\" button to highlight Test Sheet Setting. Press the "\" button to select.
- 2. Press the "\" buttons to change the test sheet value.

  Press the "\" button to save and exit.

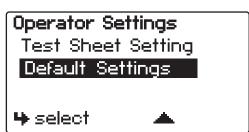




# **Default Settings**

The factory default settings can be reset by accessing the Default Settings mode.

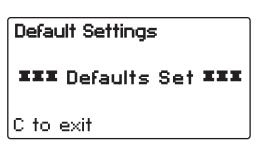
From the Operator Settings Menu press the ""
 button to highlight Default Settings. Press the ""
 button to select.



2. Press and hold the "\(\blue\)" button to reset to the factory default settings. Press the "C" button to exit.

# Default Settings Erase custom folds and modified standard folds Press & Hold + to reset

C to exit



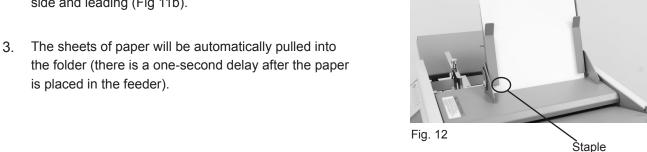
# **MULTI-SHEET FEEDING**

The multi-sheet feeder is designed to fold pre-collated stapled or unstapled sets of up to four 20 # (75gsm) sheets of paper.

1. Adjust the side guides on the multi-sheet feeder for the proper paper size. Loosen the brass thumb screw, adjust the guides to fit the paper width and re-tighten the thumbscrew (Fig 11a).



- Fig. 11a
- Brass thumbscrew
- 2. Slide the pre-collated paper set into the multi-sheet feeder. When feeding stapled sets the documents should be placed with the staple on the operator's side and leading (Fig 11b).
- is placed in the feeder).



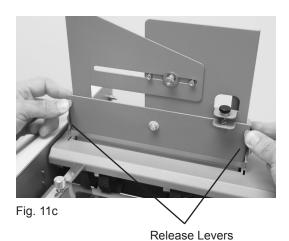
4. If the fold is skewed, turn the skew adjustment knob located on the back of the feeder left or right to make corrections (Fig 11c).



Fig 11b

Skew Adjuster

To remove the multi-sheet feeder depress the release levers located on either side of the lower back side of the feeder (Fig. 11d), tilt the feeder forward and lift. To reinstall depress the levers and reinsert.



# **CROSS FOLDING**

Cross folding refers to folding a document in one pass and then running it through the folder a second time to be folded again.

Common Application: Folding a 11" x 17" document in half and then letter folding it to fit in a standard #10 envelope.

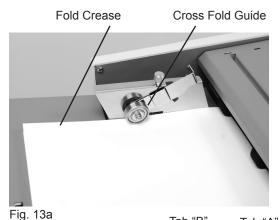
 Load folded paper into the feed tray with the fold crease facing the non-operator side of the folder (Fig 13a).

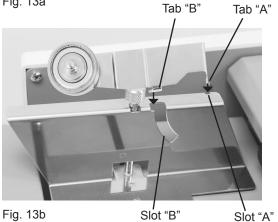
**Note:** For best results, firmly run your hand over the fold crease to help flatten the paper before loading.

2. Attach the cross fold paper guide onto the feed tray paper guide (Fig. 13b) and lower guide.

**Note:** Cross folding ability will vary based on the paper weight and type. If the paper is too heavy it may not be able to be cross folded.

**Note:** The guide can be conveniently stored under the lower fold table when not in use (Fig 13c).





To install cross fold guide hook tab "A" into slot "A" and then lower tab "B" into slot "B"



Fig. 13c Cross fold guide storage

# FD 382 STACKER WHEEL POSITIONING GUIDE

Move the stacker wheels to the proper position indicated on the chart based on the fold and paper size Fig 14a and 14b.

	8.5" x 11"	8.5" x 14"	11" x 17"
Letter	Α	A or B	В
Zig-Zag	A	A or B	В
Single	В	В	С
Gate	A	В	С
Fold Out	В	С	С
Double II	A	Α	A or B
Fig. 14a	Stacker wheels	dood	
	Stacker Wrieers	uecai	

# THICK PAPER / HIGH SPEED MODE

Thicker paper requires increased speed to fold. In order to fold thicker paper a "Thick Paper / High Speed Mode" can be accessed by pressing and holding the "+" symbol down for 5 seconds. This mode should only be used to fold heavier paper stock.

Fold: Letter

Paper Size: 8.5" × 11"

Thick Paper Mode

Count: 000000

Speed: HS 🕨 Menu

# **REMOVING OUTFEED COVER**

The outfeed cover can be removed to access the exit roller. To remove, unscrew thumbscrews that hold the cover in place (Fig. 15)

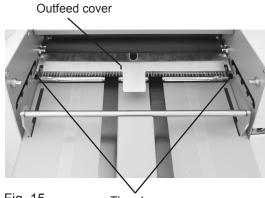
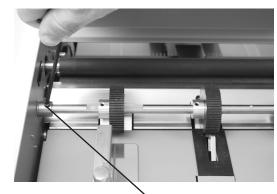


Fig. 15 **Thumbscrews** 

# REMOVING INFEED TIRES

The infeed tires can easily be removed for cleaning and replacement. Remove the Allen screw located on the left side of the feed tire shaft (Fig. 16). Slide the shaft to the right to release from the side frame and remove (Fig. 17).



Allen Screw Fig. 16



Fig. 17

# **OPERATOR MAINTENANCE**

- 1. It is recommended to let forms cool for one-half hour, from the laser printer, before folding. This allows toner to set on the forms and static electricity to discharge. The FD 402 Jogger is recommended for best results. The Jogger squares the forms and dissipates heat and static electricity created by laser printers.
- 2. Clean in-feed tires and fold rollers with Formax recommended roller cleaner & rejuvenator to remove paper dust and toner. A Formax Cleaner Kit is available from your dealer. A damp cloth with water is the best alternative.

**CAUTION:** Do not use any chemicals other than the roller cleaner & rejuvenator or water.

#### **CLEANING PROCEDURES:**

- 1. Make sure machine is turned off and unplugged. All folders have four (4) rubber rollers (Fig. 18).
- 2. Remove the upper and lower fold tables.
- 3. Using Formax roller cleaner, spray a new cotton cloth until the cloth is saturated. Wipe the wet cloth in a back and forth motion making sure to clean the entire surface of the fold and rollers. Next use a dry cloth and wipe off excess toner. The cloth should be covered with black toner surplus from cleaning the rollers.
- Run 10-15 sheets of blank copy paper through the folder to ensure all cleaner has been removed from the fold rollers. Running blank sheets will remove any excess residue of cleaner on the rollers.

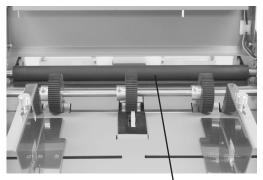


Fig. 18

Fold Rollers

# **TROUBLE-SHOOTING**

TROUBLE	POSSIBLE CAUSE	REMEDY	
Control panel lights are not illuminated.	No power at the wall outlet.	Check wall outlet.	
murimateu.	No power to the machine inlet.	Check power cord for frayed/broken wires.	
	No power to the control panel.	Press the button on the circuit breaker.	
		Call for service.	
	Internal electrical failure		
Fold table stop not moving when "Test"/ "Start" is	Fold table is not plugged in.	Plug in fold table.	
pressed.	Electrical or mechanical failure	Call for service.	
"Cover Open" is displayed.	Cover open	Close cover.	
	Magnetic switch is broken.	Call for service.	
"Paper out " is displayed.	In-feed tray is empty.	Place documents on the in-feed tray.	
"Paper Jam" is displayed.	Paper misfeed	Reload paper and press "Counter Reset" button.	
	Paper jammed at exit of folder	Remove paper and press "Counter Reset" button.	
Black marks on the folded paper.	In-feed tires, separator, and/or fold rollers are dirty.	Clean the parts with approved roller cleaner and rejuvenator.	
Fold is skewed.	In-feed tray is out of adjustment.	Turn skew adjuster knob to remove the skew.	
Stacker belts do not turn.	Broken drive belt, worn drive gear.	Call for service.	
Documents are wrinkled or crunched.	Fold tables are not inserted correctly.	Remove and reinstall fold tables. Be sure they're properly positioned.	
	Piece of paper or other material is stuck in the fold table.	Remove object from the fold table.	
In-feed tray lever does not work	Broken spring	Call for service.	
Double feeding forms	Documents stuck together	Jog forms to remove static electricity.	
	More tension is needed	Adjust the infeed tension lever	
	Feed tire or separator worn	Call for service	
Not feeding documents Feed tire is dirty		Clean feed tire	
	Feed tire or separator worn	Call for Service	
Power loss	Circuit Breaker tripped	Press black reset button on back of machine.	
	Under adverse conditions, power input level may drop below acceptable limits	When power is restored, turn off machine, then turn on again to restore normal operations.	