

FORMAX[®]

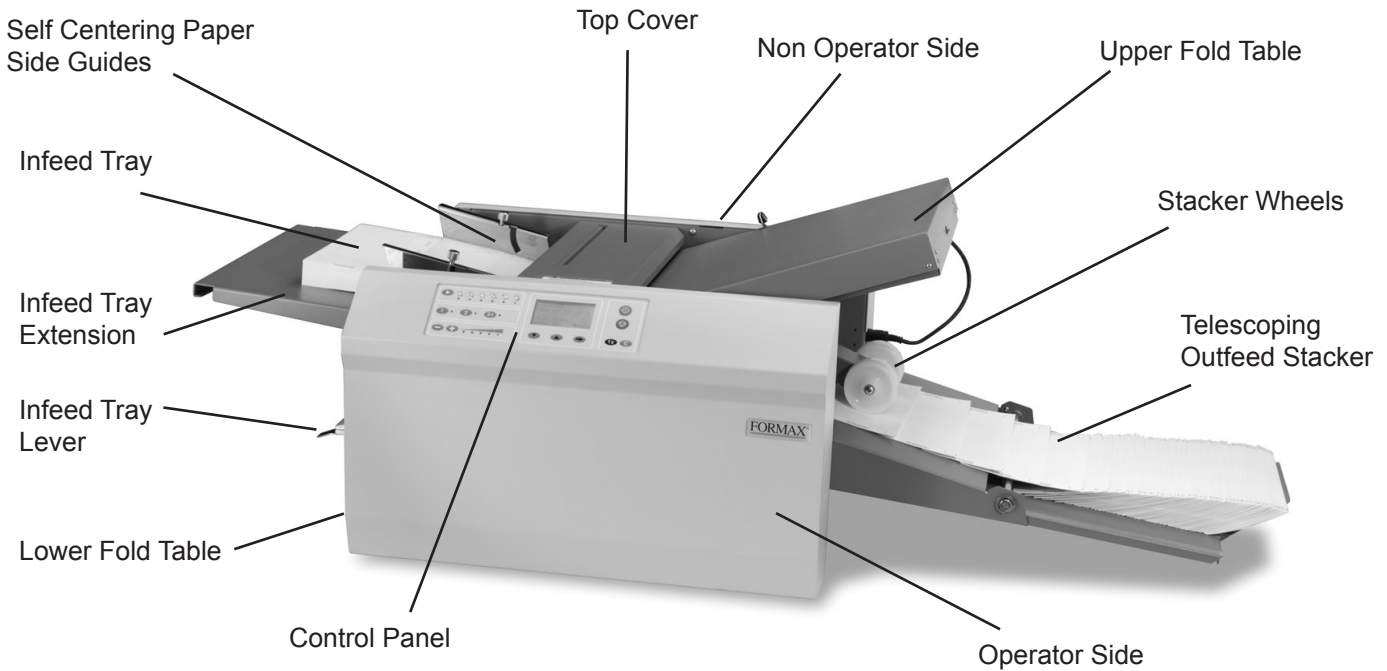
FD 2054 AutoSeal[®]
FE 2054 AutoSeal[®]
Pressure Sealer

OPERATOR MANUAL
FIRST EDITION

TABLE OF CONTENTS

SUBJECT	PAGE
DESCRIPTION	1
SPECIFICATIONS	1
UNPACKING & SETUP	2 - 3
CONTROL PANEL	4
OPERATION	5 - 6
INTERFACE MENU	7
BATCH COUNTING	8
AUTOBATCH SETUP	9
CUSTOM FOLDS SETUP	10 - 12
OPERATOR SETTINGS	13 - 16
Language	13
Standard Fold Override	14
Stacker Override	15
Test Sheet Setting	16
Default Settings	16
REMOVING ROLLER COVER	17
REMOVING INFEED TIRES	17
DAILY MAINTENANCE / CLEANING PROCEDURES	18
TROUBLESHOOTING	19 - 20
DETERMINING FOLD TYPE	21
FINE TUNING FOLD TEST SHEET	22

DESCRIPTION



The FD 2054 Pressure Sealer is designed to process a variety of form sizes and weights. The fold tables are automatically adjusted for standard folds and custom folds. Documents that are 8 ½" x 11"/14" and 11" x 17" (A5, A4, A3, B4, B5 & B6) are detected by sensors on the in-feed tray. Batch counting, and self-centering side guides are added features. Three standard folds are pre-programmed for 11", 14" and 17" forms, uneven C and Z folds for 14" forms, and up to 35 custom folds can be programmed. The sealer will stop automatically after the last document has been processed.

SPECIFICATIONS

Speed:	Up to 16,450 forms per hour – based on 11" (279mm) Z-Fold
Hopper Capacity:	Up to 500 forms 20# (75gsm)
Pre-Set Folds:	Pre-programmed for C, V, Z in 11 - 17" forms, uneven C, Z in 14" forms
Pre-Set Paper Sizes:	FD Model: 11", 14", 17" FE Model: A5, A4, A3, B6, B5, B4
Custom Folds:	Stores up to 35 custom folds into memory
Paper Size:	Min: 3.5" W x 5" L (88.9 W x 127 L mm) Max: 12.25" W x 17" L (311 W x 432 L mm)
Languages:	English, Spanish, French, German, Italian & Dutch
Dimensions:	Closed: 43" L x 21.28" W x 16" H (109 L x 54 W x 41 H cm) Fully Extended: 55" L x 21.28" W x 16" H (140 L x 54 W x 41 H cm)
Weight:	127 lbs (57kg)
Power:	110-240VAC 50/60 Hz
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, and power cord 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 and power cord

1. Be sure the tables 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



Fig. 1a

Locating Pins

Lower Fold Table Pins

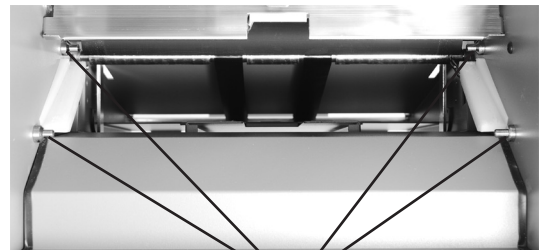


Fig. 1b

Locating Pins

2. Lock the fold table into position (Fig. 2)
3. Repeat the same steps for the lower fold table.

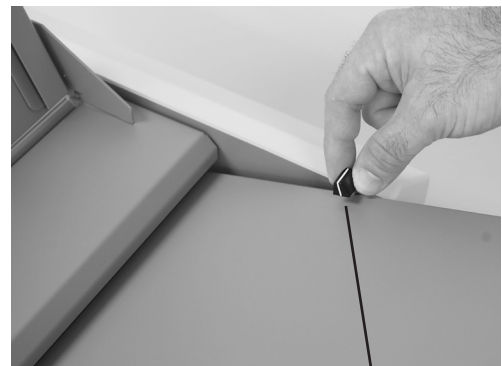


Fig. 2

Fold Table Lock

4. Plug the fold table cables into the receptacles on the side frame (Fig. 3 & 4).

Upper Fold Table Receptacle Location



Fig. 3

Plug in Receptacle

Lower Fold Table Receptacle Location



Fig. 4

Plug in Receptacle

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

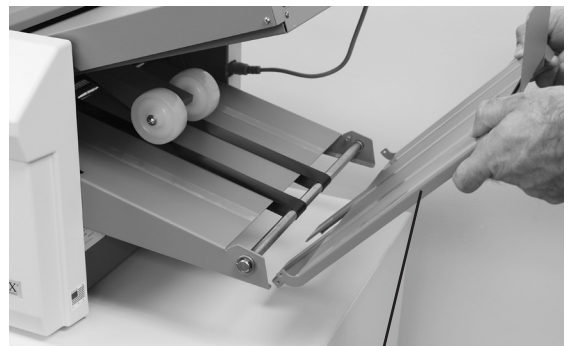
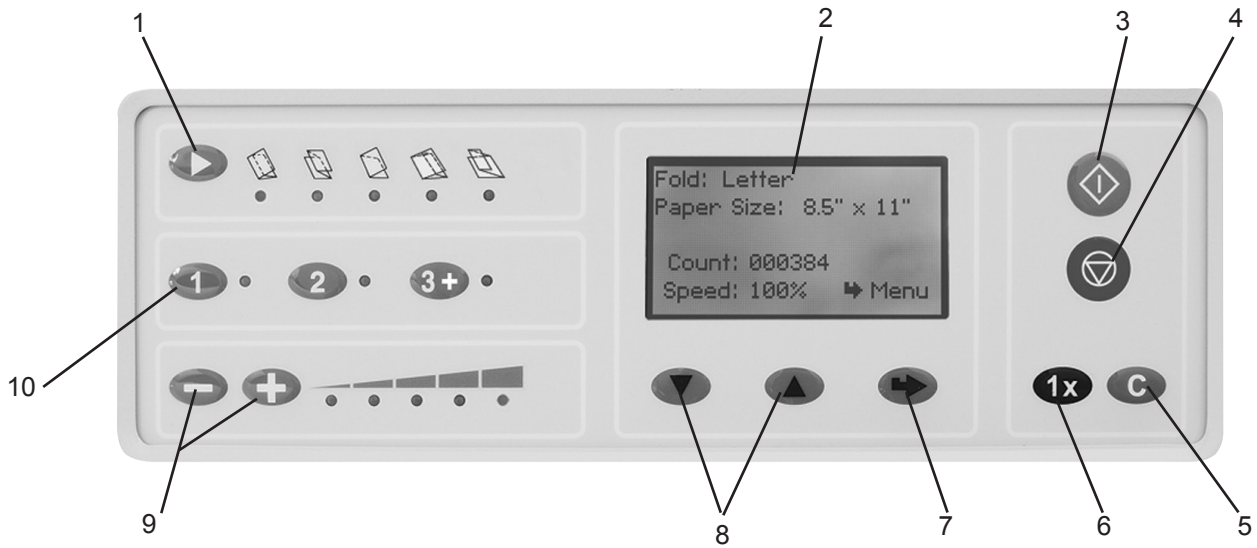


Fig. 5

Telescoping extension tray

6. 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	LCD 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 10).

OPERATION

1. Place power switch in the ON / "I" position.
2. Extend the catch tray as required.
3. Set the self-centring paper side guides for the width of the paper and lock in position using thumbscrews. (Fig 6)

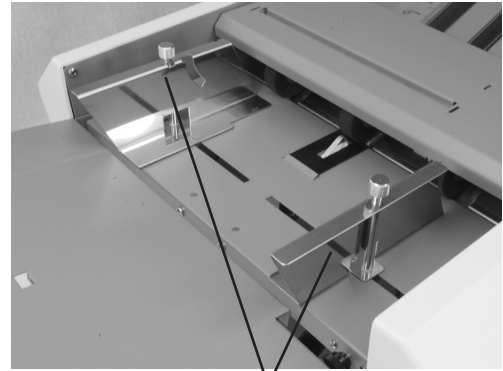


Fig. 6 Self centering side guides

4. Adjust in-feed tray tension lever (Fig 7) 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.



Fig.7 Tension Lever

5. Raise the in-feed tray lever to lower the in-feed tray. (Fig 8)
6. Neatly stack forms on the in-feed tray.
7. Lower the in-feed tray lever to raise the in-feed tray.

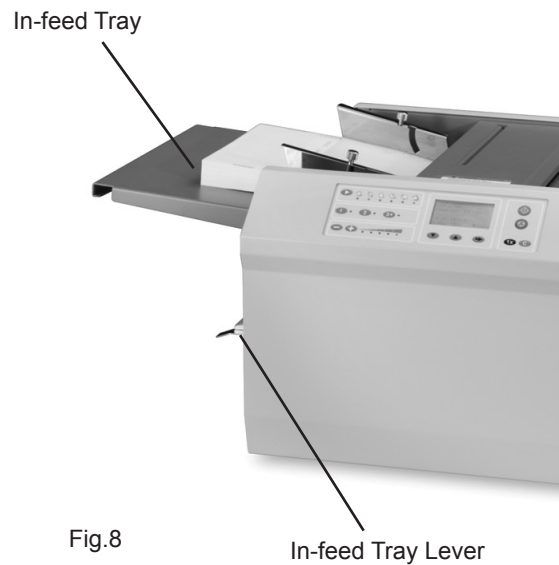


Fig.8 In-feed Tray Lever

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



Fig. 9 Fold selection button

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

NOTE: When the "1x" or "⊕" button is pressed, the fold tables return to the "home" position then reposition to the programmed setting.

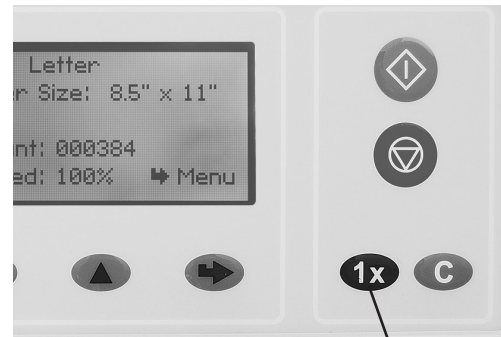


Fig. 10 Test Button

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

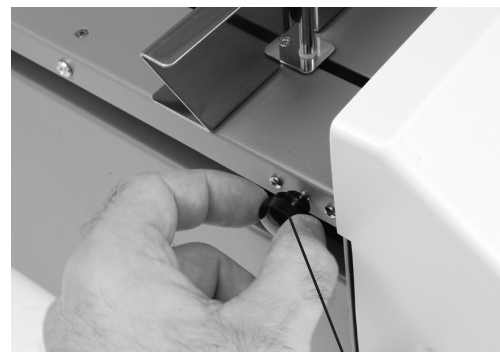


Fig. 11 Skew Adjuster

12. When satisfied with the test folds, press the "⊕" button to start the folder. Press the "⊖" 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 ▼▲

1
↵ enter
```

Set up to 35 custom folds (page 10)

```
Operator Settings
Language
Standard Fold Override
Stacker Override
↵ select ▼
```

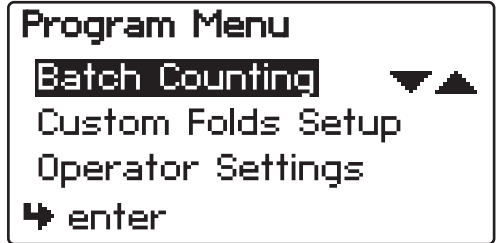
```
Operator Settings
Test Sheet Setting
Default Settings

↵ select ▲ back
```

Adjustable Operator Settings - see page 13

BATCH COUNTING

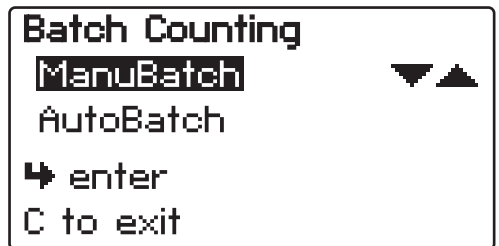
Two options are available for batch counting: ManuBatch for standard batch counting, and AutoBatch for programmed batch counting. Select “Batch Counting” and press the “↵” button to enter batch counting modes.



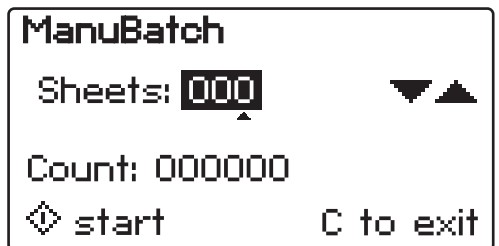
ManuBatch

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 pressure sealer will stop and automatically reset the batch count to the previously set number of sheets. It will then fold the next set when the “⬠” 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 forms to be processed 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.

1. 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 “▼▲” 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 “▼▲” 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 “◇” button to begin folding. The “▲” 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.

```
Batch Counting
ManuBatch      ▼▲
AutoBatch
↵ enter
C to exit
```

```
AutoBatch
Sheets:  000  ▼▲
Sets:    000
Delay:   00 secs
↵ next
```

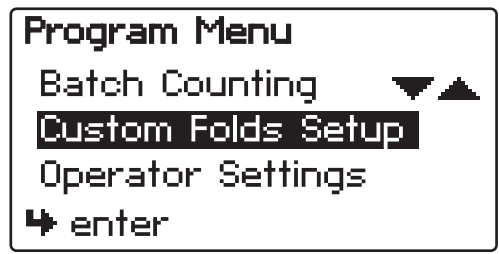
```
AutoBatch
Sheets:  000  ▼▲
Sets:    000
Delay:   00 secs
↵ next
```

```
AutoBatch
Sheets:  000  ▼▲
Sets:    000
Delay:   00 secs
↵ next
```

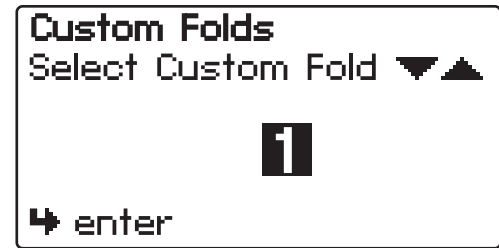
```
AutoBatch
Sheets: 010 Sets: 005
Delay: 03 secs
Count: 000000
◇ start ▲ edit C to exit
```

CUSTOM FOLDS SETUP

The FD 2054 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 "↵" button to enter. See page 12 to help determine the new fold measurements.

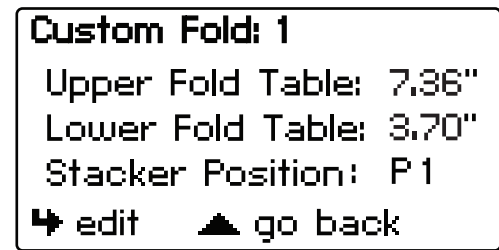


1. Select the custom fold number you want to program using the "▼▲" buttons. Press the "↵" button to enter number and advance to the next screen.

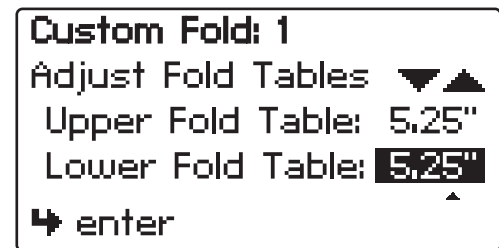
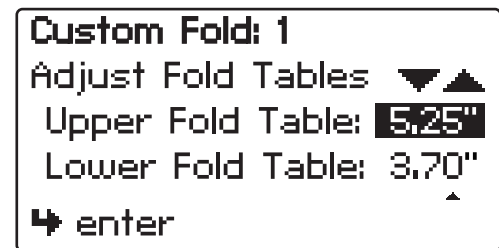


2. The current settings for the custom fold and stacker position will be displayed. Press the "↵" button to edit the settings or the "▲" to go back and select a different custom fold number.

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



3. Adjust Fold Table screen will be displayed. Use the "▼▲" 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 Stacker Position screen.



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”
P4	Folded size to: 5.30”
P5	Folded size to: 5.73”
P6	Folded size to: 6.16”
P7	Folded size to: 6.60”
P8	Folded size to: 7.03”
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 “⏏” button to save. If the folds or stacker wheels need to be adjusted press the “▲” button to edit.

```
Custom Fold: 1
Stacker Position ▼▲
Position: P0
Folded Size to: 3.75"
⏏ enter
```

```
Custom Fold: 1
Stacker Position ▼▲
Position: P1
Folded Size to: 4.00"
⏏ enter
```

```
Custom Fold: 1

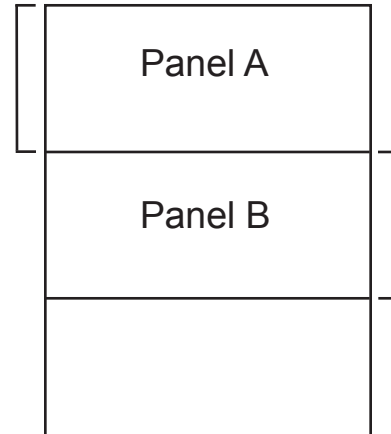
1X to Test
▲ edit
⏏ save
```

Measuring Fold Lengths

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

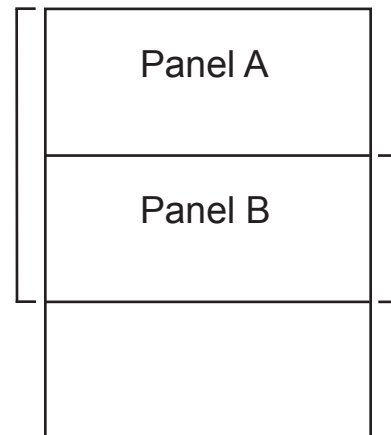
Example 1: “Z” Fold

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.



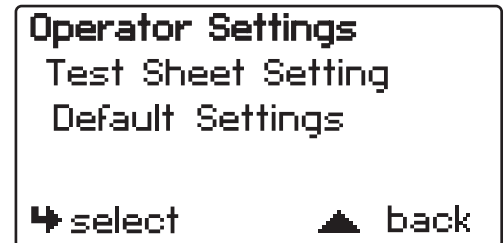
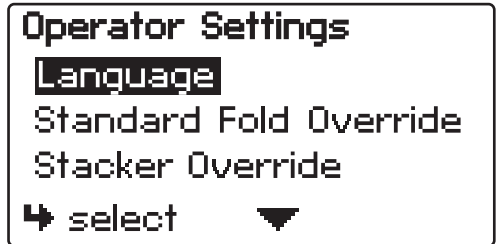
Example 2: “C” Fold

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

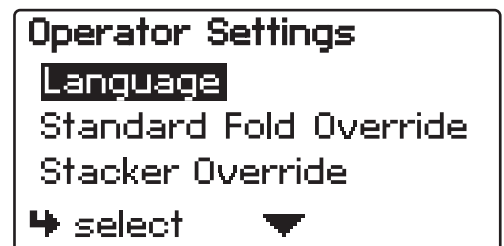
A number of operator settings can be adjusted to personalize the FD 2054. The settings include Language, Stacker Override, Standard Fold Override, and Test Sheet Setting. This section will review each setting and how to adjust them. If needed, there is a Default Settings option that will reset to factory settings. To advance to each setting press the “▼▲” buttons to highlight your selection and press the “↵” button to select setting.



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.

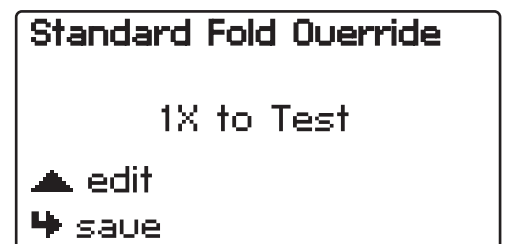
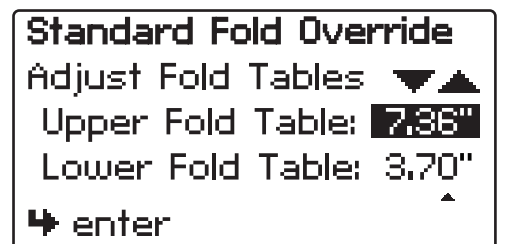
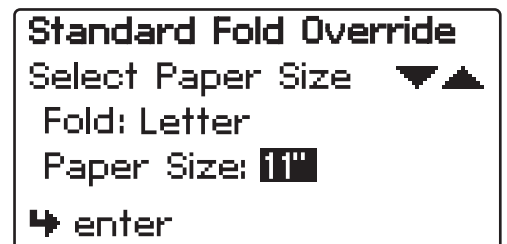
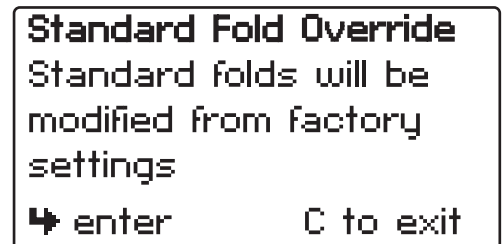
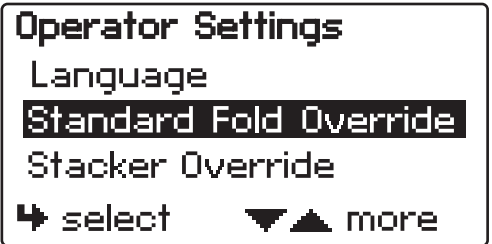


2. The language choices will be displayed. Press the “▼▲” buttons to highlight your language. Press the “↵” button to enter your selection.




Standard Fold Override

1. 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 “” button to select.
2. “Standard folds will be modified from factory settings” will be displayed. Press “” 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.




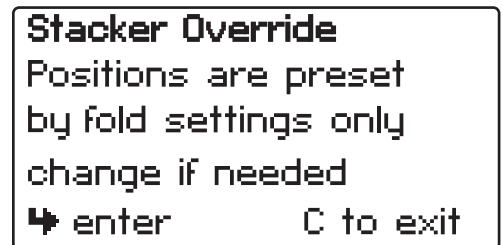
Stacker Override




The FD 2054 automated stacker positions may need to be overridden to accommodate different types of paper in order to improve the outfeed stacking. The positions are preset at the factory and should only be changed if needed.

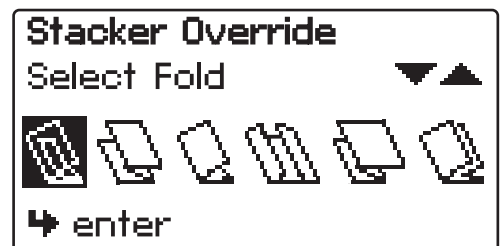
From the Operator Settings screen select “Stacker Override”, and press the “” to select.






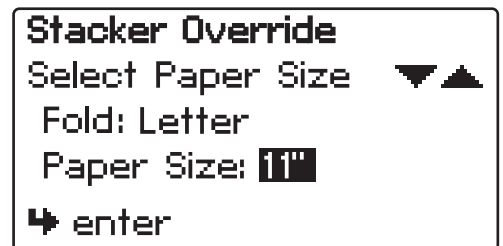
1. “Stacker Override Positions are preset by fold settings only change if needed” will be displayed. Press the “” to enter the stacker override setup or the “C” button to exit.





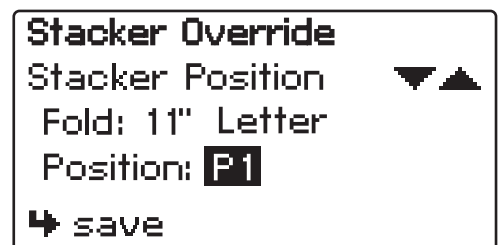
2. Using the “ ” buttons, select the standard fold that the stacker position needs to be adjusted for. Press the “” button to enter the selection.




3. Select the paper size using the “ ” buttons. Press the “” button to advance.



4. Adjust the stacker wheel position up or down using the “ ” buttons. The number shown “P1” is the factory setting for the fold type and paper size selected.

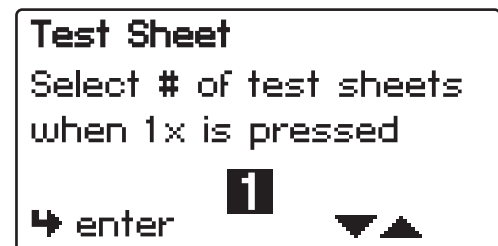
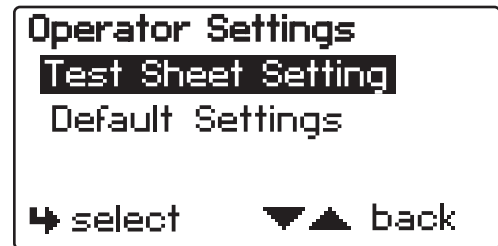


5. Press the “” to save. To adjust stacker settings for additional folds, repeat steps 1 through 4.

Test Sheet Setting

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

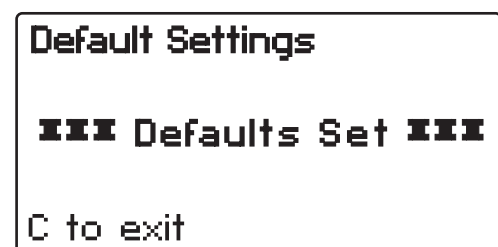
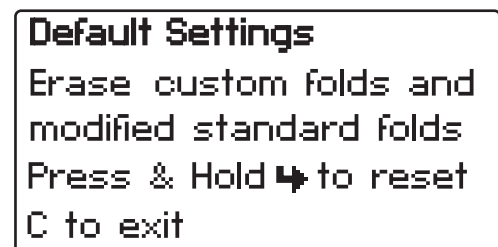
1. From the Operator Settings Menu press the “▼” button to highlight Test Sheet Setting. Press the “↵” button to select.
2. Press the “▼▲” buttons to change the test sheet value. Press the “↵” button to save and exit.



Default Settings

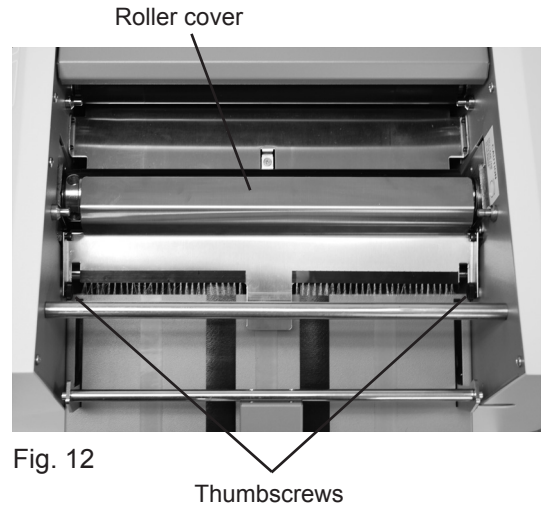
The factory default settings can be reset by accessing the Default Settings mode.

1. From the Operator Settings Menu press the “▼” button to highlight Default Settings. Press the “↵” button to select.
2. Press and hold the “↵” button to reset to the factory default settings. Press the “C” button to exit.



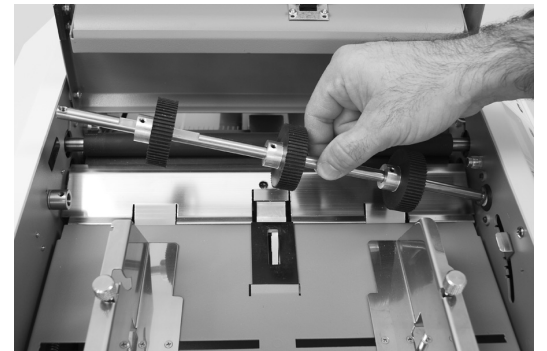
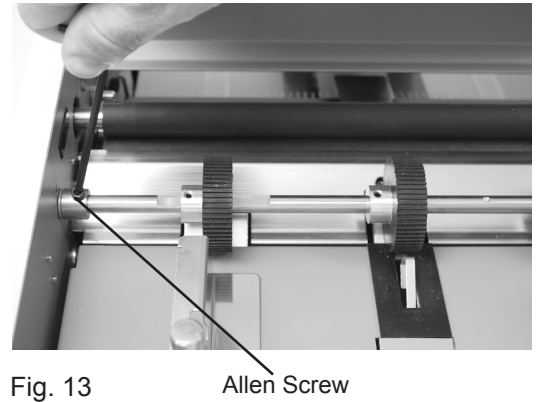
REMOVING ROLLER COVER

The roller cover can be removed to access the sealing rollers. To remove, unscrew thumbscrews that hold the cover in place. (Fig. 12)



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. 13). Slide the shaft to the right to release from the side frame and remove (Fig. 14).



DAILY MAINTENANCE

1. It is recommended to let forms cool for one-half hour, from the laser printer, before processing. 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 folder/sealers have three infeed tires, four rubber fold rollers and two metal seal rollers (Fig. 15a).
2. Lift top covers and 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 infeed tires, fold and seal rollers. Next, use a dry cloth to wipe off excess toner. The cloth should be covered with black toner surplus from cleaning the rollers.
4. Run 10-15 sheets of blank copy paper to ensure all cleaner has been removed from the tires, fold and seal rollers. Running blank sheets will remove any excess residue of cleaner on the rollers.

NOTE: If the fold rollers are very dirty, you may use a green scrubbing sponge, i.e. ScotchBrite, with the roller cleaning solution.

DO NOT use a scrubbing sponge on the seal rollers. It will damage the surface. Use **ONLY** a new cotton cloth and roller cleaning solution on the seal rollers (Fig. 15b)

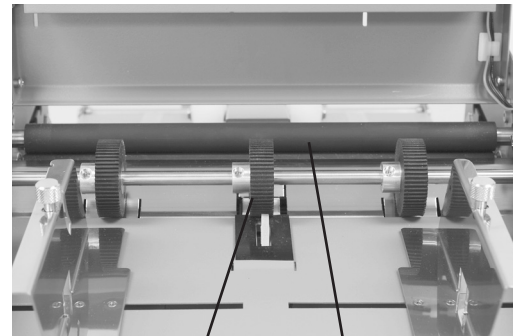


Fig. 15a

Infeed Tires
Fold Rollers



Fig. 15b

Seal rollers

TROUBLESHOOTING

TROUBLE	POSSIBLE CAUSE	REMEDY
Control panel lights are not illuminated.	No power at the wall outlet.	Check wall outlet.
	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.
	Internal electrical failure	Call for service.
Fold table stop not moving when “Test”/ “Start” is pressed.	Fold table is not plugged in.	Plug in fold table.
	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 pressure sealer	Remove paper and press “Counter Reset” button. (See Fig. 16, page 20)
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.

TROUBLESHOOTING

Clearing Paper Jams

WARNING: Turn off machine and unplug cord from its receptacle

If a jam occurs between the metal seal rollers, open the top cover, unplug and remove the upper fold table.

Remove the jam clearing tool (located under the upper fold table), apply the tool to the upper metal roller (see photo), and turn clockwise until the paper jam is clear.

NOTE: Do not turn counter-clockwise and force the forms to exit machine as rollers may be damaged. Remove the jammed form, return tool to holder and reinstall upper fold table. Reinstall cover and press reset button.

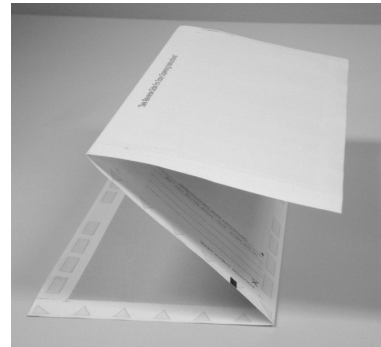
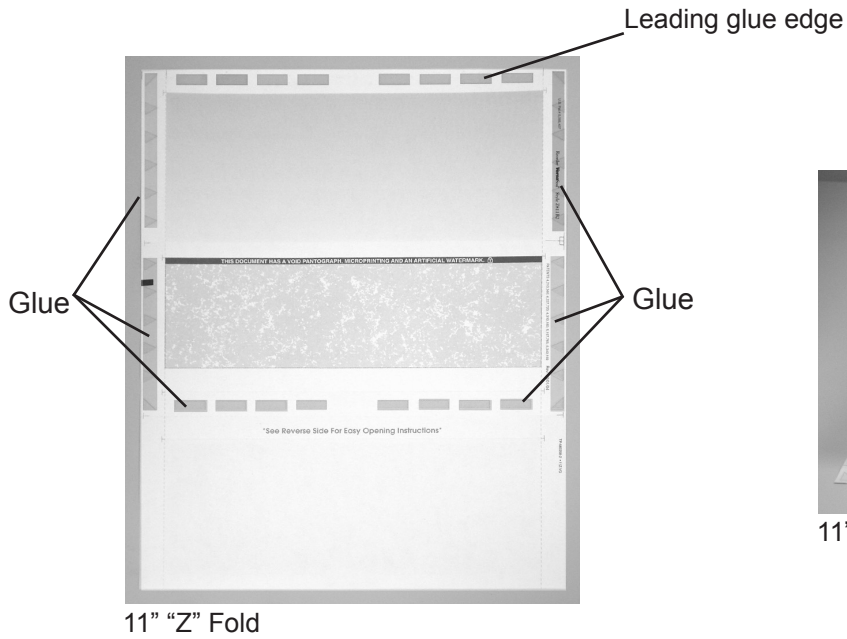
Using the Jam Clearing Tool



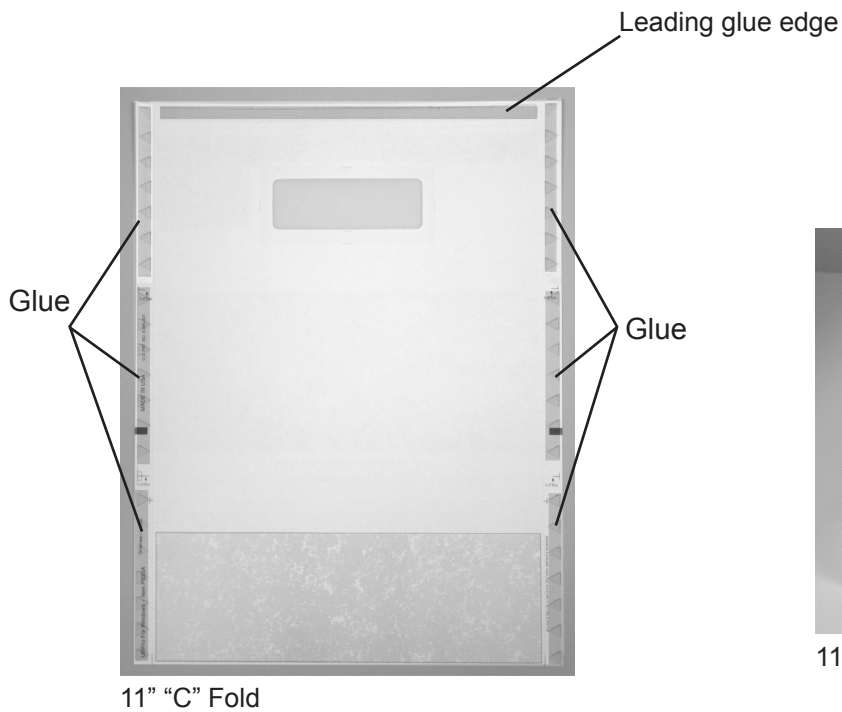
Fig. 16

DETERMINING FOLD TYPE

Two Standard Folds 11" "Z" & 11" "C"
Refer to Operator Manual for custom fold setup.



11" "Z" Fold



11" "C" Fold

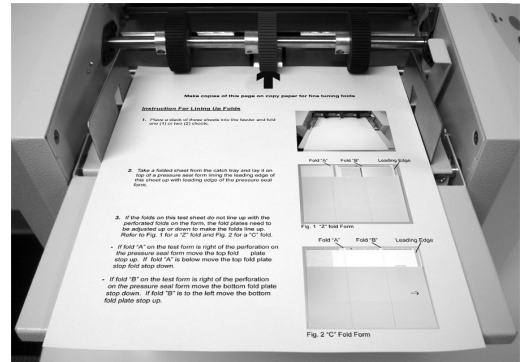
Leading Edge



Make copies of this page on copy paper for fine tuning folds

Instruction For Lining Up Folds

1. Place a stack of these sheets into the feeder and fold one (1) or two (2) sheets.



2. Take a folded sheet from the catch tray and lay it on top of a pressure seal form lining the leading edge of this sheet up with leading edge of the pressure seal form.

3. If the folds on this test sheet do not line up with the perforated folds on the form, the fold plates need to be adjusted up or down to make the folds line up. Refer to Fig. 1 for a "Z" fold and Fig. 2 for a "C" fold.

- If fold "A" on the test form is to the right of the perforation on the pressure seal form move the top fold plate stop position up. If fold "A" is to the left move the top fold plate stop position down.
- If fold "B" on the test form is to the right of the perforation on the pressure seal form move the bottom fold plate stop position down. If fold "B" is to the left move the bottom fold plate stop position up.

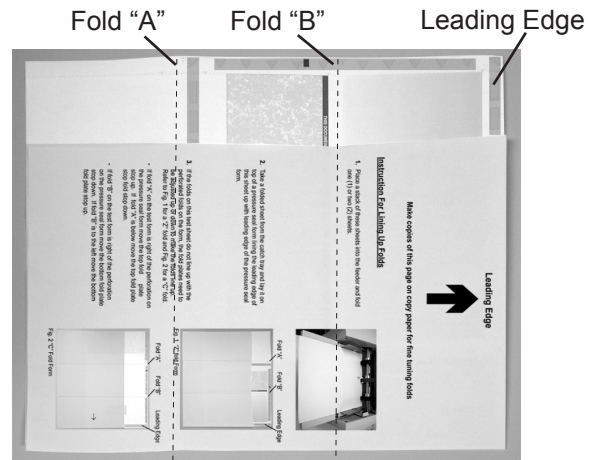


Fig. 1 "Z" fold Form

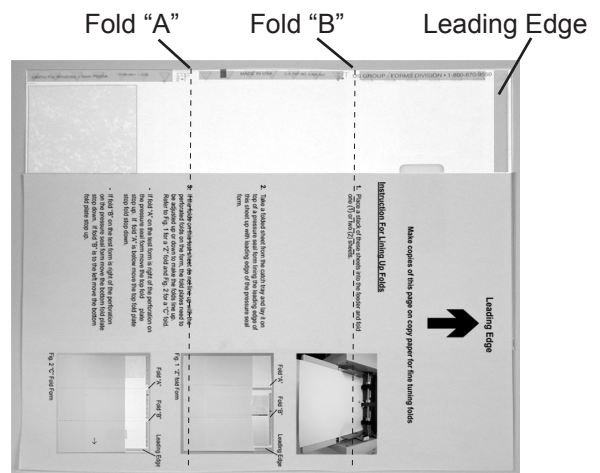


Fig. 2 "C" Fold Form