

CUSTOMER APPLICATION MEMO

CUSTOMER: SOUTHTRUST BANK

*Rev #2 (11/01/00)

Changes per 80001527

SYSTEM NO.: C580024C

MODEL: Mailstar 400 C6

MACHINE NO.: 6607

MACHINE SPECIFICATIONS

FEEDER INFORMATION:

FEEDER "A": Front Mounted (Inside) High Capacity
Bottom Sheet Feeder

w/First Page Hold, Modular Right Angle,
Modular Stager,

Universal Accumulator, MBO Folder,
Single Stage Collector

READING: One Top Reading Laser Head Reader

* SYSTEM: AUI Dual Microcomputer (w/spare board)

STATION INFORMATION:

STATIONS #1 #4: Select

STATIONS #5 & #6: Standard

ENVELOPE HOPPER: Shuttle Feed

DELIVERY CONFIGURATION: Turnover (MDS)

Envelope Marker mounted after Turnover

Telescoping Interface

Diverter #1 - 'Overweight' - Seal

Diverter #2 - 'Hold' - Seal/Unseal

(2) ASCOM #320I INST Meter Modules w/Meters

Normal Turn-Up Front Facing On-Edge Conveyor

SYSTEM FUNCTIONS: Demand Feed, Selection, Zip Marking,
High Count Stop,

Customer ID, Page Sequencing, Feed & Hold, Alert &
Clear, Dual Metering

* Computer Weighing, Item Count Verify, Page Sequence
w/in a Set,

* Set Sequence, Account Number Reporting, Data Analysis System

POWER REQUIREMENTS:

- (1) 208V, 30A 4 Wire, Single Phase, 60HZ (Main Power)
- (1) 120V, 20A 3 Wire, Single Phase, 60HZ (Isolated System)
- (1) 120V, 30A - 3 Wire, Single Phase, 60HZ (Modular Delivery)

* Warning: To prevent electrical shock hazards, machines must be *
* grounded according to the national electrical code or local *
* codes, whichever control is in your area. Use only registered *
* electricians to insure proper electrical wiring to machines. *

SUPPLEMENTARY INFORMATION

1. CAM Drive and Vacuum Flap Opener required.
2. TwoUp SMI w/o signing required (OA will order).

Ed Forstoffer / C. Pristash

DATE ISSUED:

August 27, 1993

SYSTEM FUNCTION DESCRIPTIONS

CUSTOMER: SOUTHTRUST BANK
*Rev #3 (11/01/00)
Birmingham, Alabama
Changes per 80001527

MACHINE NO.: 6607

DEMAND FEED

This function allows for the collection of multiple page sets.

When the collection of these pages is complete, the set will be fed into the insert track.

*** DEMAND FEED LOGIC SELECTION**

The ability to select the Demand Feed logic(s) will be provided with the two switches, with their options, listed below:

1. **1ST PAGE/LAST PAGE:** This switch will determine which page of a set will control the Demand Feed function.
2. **ABSENCE/PRESENCE:** In the "**Absence**" position, the Demand Feed info bit will **not** be present on the page that switch #1 is set to. In the "**Presence**" position, the Demand Feed info bit will be present on the page that switch #1 is set to.

The following four Demand Feed logics can be selected by properly

setting the two Demand Feed switches as follows:

- a. First Page logic - "First Page" & "Presence"
- b. Overflow logic - "First Page" & "Absence"
- c. End of Set - "Last Page" & "Presence"
- d. Negative End of Set - "Last Page" & "Absence"

ACCUMULATION

This function allows for the collection of multiple page sets

prior to folding. Pages will be fed and held in the accumulator

until any of the following conditions have been met:

1. the end of the set has been reached
2. the accumulator maximum setting has been reached
3. the internal count of **8** has been reached

(note:

for safety reasons, the folder is limited to folding

eight accordionfolded pages at one time.)

4. MBO Folder note Although the MBO folder can fold

eight pages for a total of (24) panels, the recommended

maximum number of panels in the collector is only (21).

The accumulated pages will then be fed together, folded, and held

in the collector. This process is repeated until the complete

set has been fed into the collector.

ACCUMULATOR ON/OFF switch

1. ON multiple pages fed, accumulated, folded, and held in the collector until the end of set is reached.
2. OFF single pages fed, folded, and held in the collector until the end of set is reached.

FEED AND HOLD

This function allows for sets that exceed the collector capacity, to be fed into the insert track in subsets. The insert track is held until the complete set has been fed. A count will be set by the operator to preset the number of pages that constitute the capacity of the collector.

When this number is reached, the collector will dump and the insert track will be held. This process will be repeated until the last page of the set has been fed into the insert track.

GRIPPER ARM SELECTION

The presence of any or all SELECT info bits on the control document will cause an insert to be fed from the corresponding insert hopper as the set passes the gripper arm station. The stations may also be programmed ON (always pulls an insert) or OFF (never pulls an insert).

OVERWEIGHT DIVERTER #1: COMPUTER WEIGHING CONTROLLED

Filled envelopes will either be diverted or metered depending on

the weight and setting of the Delivery switch. The envelopes will be sealed. (see Computer Weighing description)

HOLD DIVERTER #2: INFORMATION BIT CONTROLLED

The setting of the DIVERT information bit on the control document will cause the envelope set containing that page to be diverted prior to reaching the postage meter.

A switch will be provided to select either Seal or Unseal diversion for the Hold diverted envelopes.

ZIP MARKING

The presence of the ZIP info bit on the control document will cause this envelope set to be marked on the top edge. If an envelope to receive a zip mark is removed before reaching the marker, or is to be diverted, the next envelope will be marked.

HIGH COUNT STOP

This feature provides for the removal of completed sets that are too large to be transported down the insert raceway and delivery area. The number of pages that constitute a large set, will be determined by the operator. Once this number is reached at the feeder(s), the set will be completed and dumped into the raceway for removal. No inserts or envelope will be pulled for that set.

ALERT AND CLEAR

The setting of this information bit on the control document indicates that this is the first page of a new run. This allows the operator to "clear out" the remaining sets in the track and delivery area before resuming the new run. If, at any time, feeding is to continue before the machine is cleared, the operator may truncate this function.

FIXED PATTERN MATCHING WITHIN A SET CUSTOMER I.D.

Match information bits will be set on each page of the set, causing a comparison condition between the bits set on the first page, and the corresponding match bits set on the remaining pages of the set. If the match compares, normal operations continue.

If a mismatch occurs, a fault condition is initiated stopping the machine and alerting the operator to the cause of the stoppage.

Note: The setting of match bits to zero is not a valid match.

This function may be disabled by the **CUST ID ON/OFF** switch

CONTINUOUS PAGE SEQUENCING WITHIN A RUN

Binary sequence information bits will be printed on every page of a run. The sequence count will increment with each page and will reset to one every time the count exceeds the binary value by one. Ex: Page 8 = Binary 1, Page 9 = Binary 2, etc.. If a mismatch occurs, the machine will stop and alert the operator to

the cause of the stoppage.

Note: The binary bit(s) set on the first page of each set will be in sequential order following the last page of the previous set

This function may be disabled by the **PAGE SEQUENCE ON/OFF** switch.

* **ITEM COUNT VERIFICATION WITHIN A SET**

Two ICV characters will be set on the first page fed of every set.

The total value of the characters must equal the number of pages in the set. If the match compares, normal operations continue.

If a mismatch occurs, a fault condition is initiated, stopping the machine and alerting the operator to the cause of the stoppage.

The count will reset to 01 every time the count reaches the value of 99 (Ex: Page 99 = 99, Page 100 = 01, etc.)

This function may be disabled by the **ITEM COUNT ON/OFF** switch.

* **PAGE SEQUENCING WITHIN EACH SET**

Two Page Sequence characters will be set on every page of the set.

The sequence count will increment with each page and will reset

to 01 every time the count reaches the value of 99. (Ex: Page 99

equals 99, Page 100 = 01, etc.) If a mismatch occurs, the machine

will stop and alert the operator to the cause of the stoppage.

Note: The first page of each set will have a character value of 01

This function may be disabled by the **PAGE SEQUENCE ON/OFF** switch.

* **SET SEQUENCING WITHIN A RUN**

Six Set Sequence characters will be set on the 1st page of each

set. The sequence count will increment with each set and will

reset to 000001 every time the count reaches the value of 999999.

Ex: Set 999999 = 999999, Set 1000000 = 000001, etc..

If a

mismatch occurs, the machine will stop and alert the operator to

the cause of the stoppage.

This function may be disabled by the **SET SEQUENCE ON/OFF** switch.

READ VERIFICATION 3 OF 9 CODE

A complete barcode must appear on every document fed from

Feeder "A". The inability to correctly read a barcode, or an

invalid check character, will cause the machine to stop and the

set will be collected in the track.

CHECK CHARACTER

An optional character can be added between the final data

character and the stop character. This character mathematically

checks the integrity of reading the barcode.

This function may be disabled by the **CHECK CHARACTER ON/OFF** switch

DUAL METERING COMPUTER WEIGHING CONTROLLED

Two in line postage meters will be provided to meter two different weight categories. The selection of the correct meter will be made through the computer weighing function.

COMPUTER WEIGHING

This function allows the customer to apply a weight to each specific piece of material to be processed through the machine.

The computer then calculates the total weight of the set, and selects the destination of the envelope.

A switch will be provided to select the low and high weight categories as follows:

<u>Weight Category</u>	<u>High Weight Setting</u>	<u>Low</u>
<u>Weight Setting</u> 0 1.000 oz. mail & seal	low weight meter	divert
1.001 2 oz. mail weight meter	high weight meter	low
2.001 3 oz. mail weight meter	divert & seal	high
over 3 oz. mail mark/divert & seal	mark/divert & seal	

* **DATA ANALYSIS SYSTEM**

 The Data Analysis System provides detailed information regarding the productivity and operation of the inserting machine and the operator. This information includes such areas as run, fault, idle, break times, filled envelopes, and station counts. Refer to the Operators Manual for specific reports.

* **ACCOUNT NUMBER REPORTING**

 The barcode reader will read from the first page fed and record a 6-character account number from an encoded barcode scheme. The system will store the information of each mailpiece on the PC hard drive. The data will be available via electronic file transfer using standard AUI networking methods to the customer's main frame or supporting PC.

CHARACTER/INFORMATION BIT SETUP

 This feature allows the operator to select the sequential order of the character and information bits. The location of the barcode on the material will remain the same; however, the logic of these character and information bits may be programmed for any functions required for the feeder in control (reference the Material Relationship Form).

 A password must be entered to change the order of the information bits. Also, the Demand Feed, Customer ID, and Page Sequence bits cannot be set to zero 00 to inhibit their respective functions.

* **SYSTEM MANAGEMENT SYSTEM**

This function will include the "Program Job Setup" and the "Operator Setup" features which will enable the operator to completely program the inserter for use.

SYSTEM MODES

Read: In this mode, the operator may run the FEEDER and BASE MACHINE with the system functions as described above.

Non Read: In this mode, the operator may run the FEEDER and BASE MACHINE without any system functions. Two "Set Size" displays can be used for Demand Feeding.

Off: In this mode, the operator may run the machine as a standard base inserter (gripper arm stations only).

Ed Forstoffer / C. Pristash
Order Administration
eef 082093

August 23,1993

Date Issued:

SYSTEM SUMMARY INFORMATION

Customer: Southtrust Bank
*Rev #1 (01/07/97)

Changes per F02642
Machine No.: 6607

Preplist Required (Y/N): No

Specialty Engineering Responsibility: None

<u>FUNCTION</u>	<u>NO.</u>	<u>CONTROL</u>
<u>LOCATION</u>		
* Demand Feed	1L	Bit
Overflow		
Accumulation	1M	Count
N/A		
* Feed & Hold	1N	Count
N/A		
* Selection	2A	Bit
First Page		
* Divert 1: Overweight	3F	Weight
N/A		
* Divert 2: Hold	3A	Bit
First Page		
* Zip Marking	4C	Bit
First Page		
High Count Stop	5A	Count
N/A		
* Alert & Clear	6A	Bit
First Page		
* Customer ID	7C	Bit
Every Page		
* Page Sequencing	7H	Bit
Every Page		
*		
* Dual Metering	17B	Weight
N/A		
* Computer Weighing	20A	Weight
N/A		

Audit Trail
N/A

26A

N/A

Switches:

Accumulator On/Off: Feeder "A" * Delivery
High/Low: Diverter #1
Cust ID On/Off: Feeder "A" * Page Sequence
On/Off: Feeder 'A'
* Seal/Unseal: Diverter #2 * Check Character
On/Off: Feeder 'A'
*

Preset Piece Count:

Accum Max: Feeder "A"
* Collector Max: Feeder 'A'
High Count: Feeder "A"
Set Size: Feeder "A" (NonRead)

System Modes:

Read: Feeder "A", Base Machine
NonRead: Feeder "A", Base Machine
Off: Base Machine

Order
Date:

Administration:

Engineer:
Date:

(Return to S. Fisher after final Engineering
review)

TOP OF FORM

Application #1 - Bankcard Statements

Application #2 - Savings & Imaged Statements

Application #3 - Home Equity Loan Line

Paper: One-Up Cut Sheet

Probes: 1 - Top Mounted Laser Reader

Feeding: Face Down, Left Edge Leading into

Feeder

Face Down, Top Edge Leading into

Folder

Collation: "A" to "Z"

Fold Type: Accordion

Dimensions into Feeder: 11" x 8-1/2"

Dimensions After Fold: 8-1/2" x 3-2/3" high

Accumulation: Over

Address: Top of Form

Note: 1. The barcode is shown looking thru the form

2. The pre-punched holes 5/16" dia

INFORMATION BIT LOCATIONS

Customer ID - Every Page

Demand Feed - Overflow Pages

Page Sequence - Every Page

Remaining Bits - First Page

BARCODE LOGIC

CHARACTER #1 - Info Bit #1: Zip Mark
Info Bit #2: Spare
Info Bit #3: Alert & Clear
Info Bit #4: Divert
Info Bit #5: Demand Feed

CHARACTER #2 - Info Bit #1: Spare
Info Bit #2: Spare
Info Bit #3: Spare
Info Bit #4: Spare
Info Bit #5: Spare

CHARACTER #3 - Info Bit #1: Spare
Info Bit #2: Spare
Info Bit #3: Spare
Info Bit #4: Spare
Info Bit #5: Spare

CHARACTER #4 - Info Bit #1: Customer ID 1
Info Bit #2: Customer ID 2
Info Bit #3: Customer ID 3
Info Bit #4: Select #1
Info Bit #5: Select #2

CHARACTER #5 - Info Bit #1: Select #3
Info Bit #2: Select #4
Info Bit #3: Page Sequence
1
Info Bit #4: Page Sequence
2
Info Bit #5: Page Sequence
4
CHARACTERS #6 - #11 - Set Sequence
CHARACTERS #12 & #13 - Page Sequence w/in Set
CHARACTERS #14 & #15 - Item Count Verify
CHARACTER #16 - CHECK CHARACTER

○ ○ **BARCODE**

○ PAGE 1 OF 1

09/1993

Date:

CAM CHANGES FOR SCHEDULE REVIEW

Customer: SOUTHTRUST BANK

Machine No.: 6607

FCO No.: N/A

Schedule Ship Date: OCTOBER 28,1993

Requested Schedule Change: No Change

Changes to CAM:

1. Relocated function mark banks on the MRF's.

Reason for Changes:

1. Customers forms design change.

Ed Forstoffer
Order Administration

FACTORY SUPPLEMENT

ISSUE DATE: 01/07/97

PREPARED BY: CJP 010797

CUSTOMER : Southtrust Bank
Birmingham, Alabama

SYSTEM NO. : C580-024

MODEL : Mailstar 400 - C6

FCO: F02642

MACHINE NO. : 6607

This Factory Supplement is for the following changes to the customer's current machine:

1. Change system number
2. Change Feeder 'A' config. from rear mount dual tractor
cutter/interface/universal accum/mbo folder/collector to:

**Front Mount (Inside) High Capacity Bottom Sheet Feeder
w/First Page Hold, Modular Right Angle, Modular Stager,
Universal Accumulator, MBO Folder, Single Stage Collector**

The existing accumulator/folder/collector will be maintained

3. Provide one top reading laser head reader for Feeder 'A'

4. Change delivery section from non-MDS to MDS.
A telescoping interface and (2) diverters will be added.
5. Change meter config. from (1) Ascom 320I INS meter stand & meter to (2) Ascom 320I INST meter modules w/meters
6. Replace 60" end conveyor with normal turn-up front facing on-edge conveyor
7. Provide a 120V, 30A power drop for Modular Delivery section
8. Provide the following machine system functions:
 - Feed & Hold, Selection for station #4, Overweight Diversion with Mode Switch Diversion, Hold Diversion with Seal/Unseal switch, Alert & Clear, Page Sequencing, Dual Metering, and Computer Weighing
9. Change Function Mark Setup to Character/Information Bit Setup
10. Provide new material relationship forms in **WORD** format for the customer's new applications

Reference the CAM & MRFs for additional information

FACTORY SUPPLEMENT

ISSUE DATE: 11/01/00

PREPARED BY: CJP 110100

CUSTOMER : SouthTrust Bank
Birmingham, Alabama

SYSTEM NO. : C580-024

MODEL : MS 400 - C6

FCO: 80001527

MACHINE NO. : 6607

This Factory Supplement is for the following changes to the customer's current machine:

1. Upgrade machine system from CRT to AUI
2. Provide 'Item Count Verify', 'Page Sequence w/in Set', 'Set Sequence', and 'Account Number Reporting' system functions
3. Redraw current Material Relationship Forms, with changes, in WORD format

Reference the CAM & MRFs for additional information