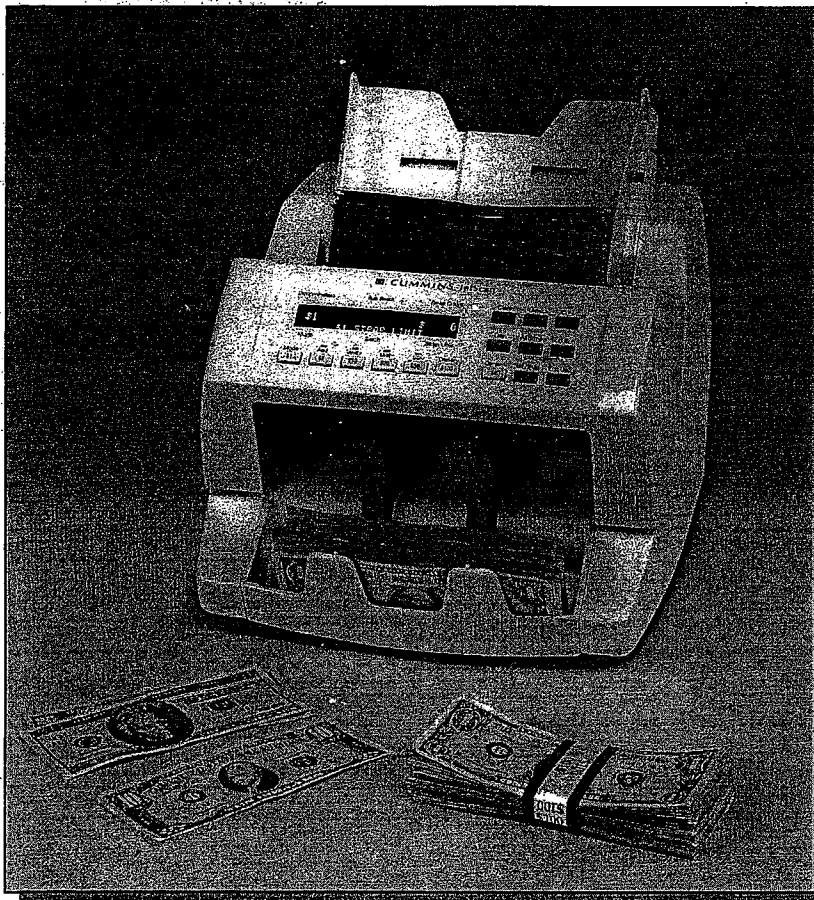


JetScan

CURRENCY SCANNERS
9900 Series

OPERATING INSTRUCTIONS



Models

4062

4063

4064

4065

4068

 **CUMMINS**
CUMMINS-ALLISON CORP.

Form 022-7202-00
Rev. 06/99

**MADE IN
USA**

JETSCAN 9900 SERIES

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

TABLE OF CONTENTS

MACHINE SPECIFICATIONS.....	7
THE 4062, 4063, 4064, 4065 & 4068 JETSCAN CONTROL PANEL	8
GENERAL OPERATING PROCEDURES.....	11
Introduction.....	11
Read Heads.....	11
Operating Modes	11
Additional Operating Modes	11
Memory Levels	12
Set-up Fields.....	13
Density Operation	18
Choosing a Mode of Operation	19
Setting Strap Limits.....	19
Setting Suspect Document Detection.....	20
Verification Function.....	20
Facing Currency.....	21
Orienting Currency	22
Stop Conditions	23
Daily Maintenance.....	26
BATCH, SUB-BATCH AND DAY TOTALS.....	27
REVIEWING SUB-BATCH, BATCH, STRAP AND DAY TOTALS FOR INDIVIDUAL DENOMINATIONS.....	31
Reviewing Day Totals	32
PRINTING REPORTS.....	33
STRANGER DETECT MODE OPERATION.....	39
MIXED MODE OPERATION.....	47
SORT MODE OPERATION	51
COUNT MODE OPERATION.....	57
OFFSORT MODE OPERATION.....	61
GLOSSARY	66

MACHINE SPECIFICATIONS

Adjustable Processing Speed: 600, 800, 1000, 1200, 1500 notes per minute

Denominations Scanned: \$1.00, \$2.00, \$5.00, \$10.00, \$20.00 (new and old series), \$50.00 (new and old series), \$100.00 (new and old series)

Accuracy: 99.99%

Stacker Capacity: 150 notes

Dimensions: 9.5" H x 12" D x 11.75" W

Weight: 15 lbs.

Power Requirements: 115V, 60Hz or 220V, 50Hz.

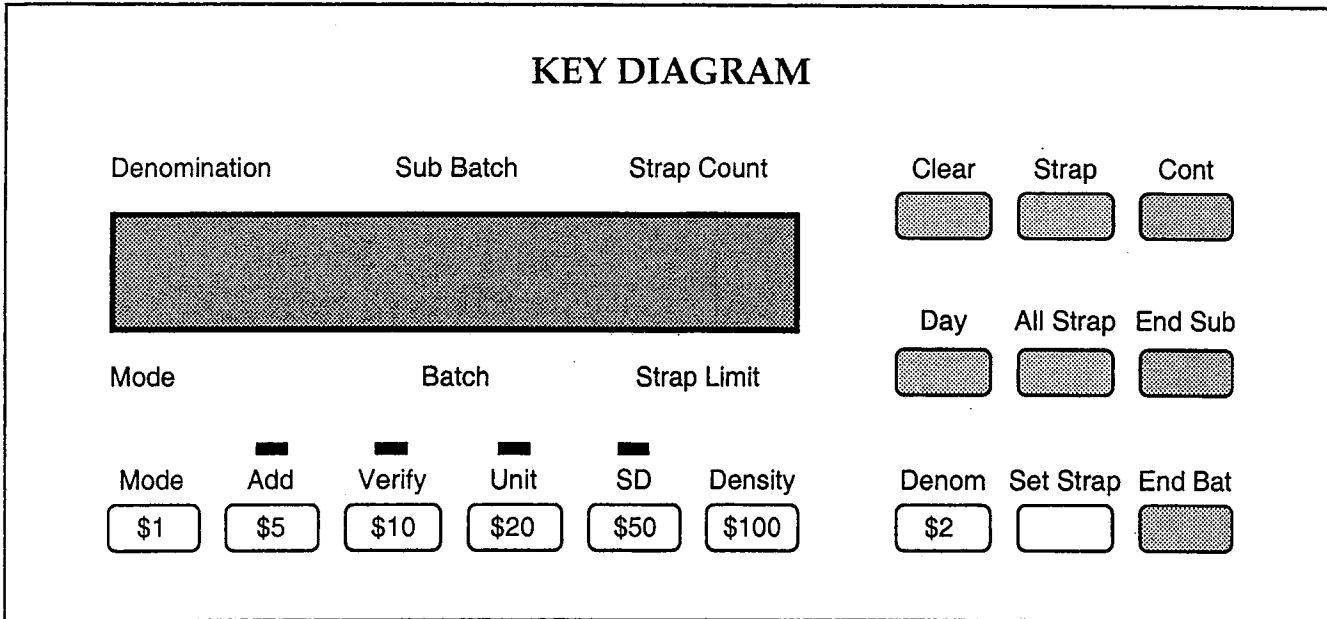
MACHINE OPTIONS

Second Read Head
 Suspect Document Detection Magnetic
 RS-232 Communications
 Second Read Head and RS232 Communications
 Extended Hopper (U.S. Currency)

MODEL CHART

Model		Features			
		Dual Read Head	Magnetic SD	UV/FL	Comms
4062	Basic JetScan with dual read heads, comm's and magnetic SD.	Standard	Standard	Not Available	Standard
4063	Basic JetScan with one read head.	Optional	Optional	Not Available	Optional
4064	Basic JetScan with one read head and magnetic SD.	Optional	Optional	Not Available	Optional
4065	Fully loaded JetScan with dual read heads, comm's, magnetic and UV/Fluorescence SD.	Standard	Standard	Standard	Standard
4068	Basic JetScan with dual read heads and comm's.	Standard	Optional	Not Available	Standard

THE 4062, 4063, 4064, 4065 & 4068 JETSCAN CONTROL PANEL



KEY EXPLANATION

- CLEAR** This key is used when clearing either Day or Strap totals and reconciling Sub-Batch and Batch totals.

- STRAP** This key is pressed after the **CLEAR** key to clear a denomination Strap Count.

- CONT** The continue key is used to restart the machine after a stopping condition.

- DAY** This key changes the display screen to the Day totals screen and displays the Grand total for the day. It is also used when pressed after the **CLEAR** key to clear Day totals. The Day key may also be used to adjust processing speed. After holding down the **DAY** key for 3 seconds machine speed may be set to **LOW**, **MED** or **HI** by scrolling with the **DAY** key.

- ALL STRAP** This key is used in conjunction with the **CLEAR** key to clear Strap Counts for all denominations simultaneously.

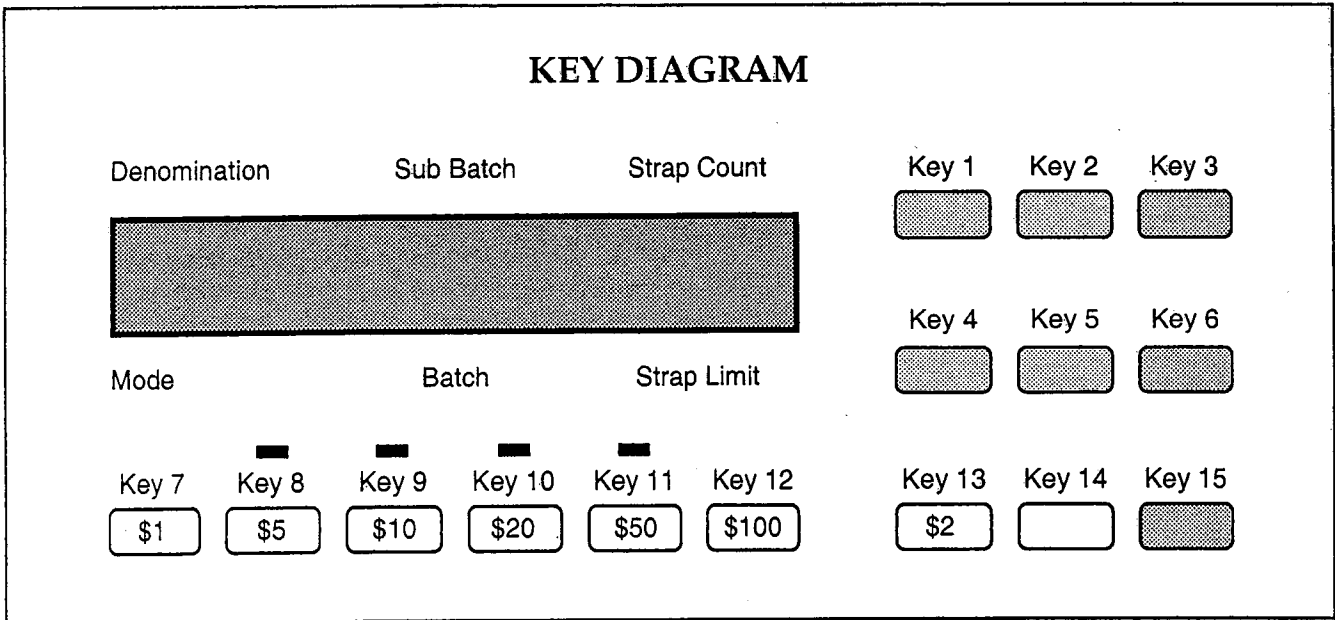
- END SUB** This key is used to clear Sub-Batches. It is also used when pressed after the **CLEAR** key to reconcile a Sub-Batch.

THE 4062, 4063, 4064, 4065 & 4068 JETSCAN CONTROL PANEL

DENOM	This key is used to select the denomination appearing on the display screen.
SET STRAP	This key is used for setting a Strap Limit at any preset value (5, 10, 20, 25, 50, 75, 100, or infinity). This key is also used to set strap values at levels other than the preset values (i.e., 53, 79, etc.).
END BAT	This key clears all Batch and Sub-Batch totals and is used in conjunction with the CLEAR key to reconcile batches. It will also clear all Strap totals and generate a print report, if these features have been enabled.
MODE	This key is used for setting an operating mode.
ADD	This key is used for accumulating a Batch total even after bills have been removed from the stacker. It is also used to enable SUB-BATCH mode.
VERIFY	This key is used to review a count suspected of being erroneous.
UNIT	This key is used to toggle between value and piece count.
SD	This key is used to activate suspect document detection and set sensitivity by denomination.
DENSITY VALUE KEYS	This key is used for setting doubles detection sensitivity by denomination.
DENOMINATION	Denomination values are printed on the MODE (\$1), ADD (\$5), VERIFY (\$10), UNIT (\$20), SD (\$50), DENSITY (\$100), and DENOM (\$2) keys. If, during setup, these keys have been activated, recovering from certain stop conditions is accomplished by simply pressing the key that corresponds to the top bill in the stacker. This will add that bill amount to the machine's total and restart the machine.

THE 4062, 4063, 4064, 4065 & 4068 JETSCAN CONTROL PANEL

Instructions shown on display refer to "Key" numbers. Key positions are as follows:



GENERAL OPERATING PROCEDURES

INTRODUCTION

This manual is designed to provide the new user with a detailed description of the various features and modes of operation for the JetScan Models 4062, 4063, 4064, 4065 and 4068 Currency Scanner/Counter. For ease of use, the manual is divided into two main sections. The first, encompassing pages 7 through 36, contain general information that relates to all of JetScan's five operating modes. The second section, beginning with page 36, provides individual descriptions for each of JetScan's operating modes.

READ HEADS

Basic JetScan models 4063 and 4064 come equipped with a single head for scanning and reading currency. A second read head is available on models 4062, 4065 and 4068, and is also a machine option for models 4063 and 4064. The JetScan you are working with may be equipped with this extra head. The descriptions of various operations in this manual may vary depending on how your machine is equipped. Where appropriate, the manual describes the differences in how JetScan will operate.

An important general consideration, however, is that in a machine equipped with a single read head, bills must be placed in the hopper "green-side-up" in every mode except COUNT. Every bill that is not "green-side-up" will cause a NO CALL stopping condition.

THICKNESS ADJUSTMENT KNOB

This is a gray knob which is located on the top of the JetScan. The knob adjusts the tightness of the feeder in which the notes pass through during JetScan operation. To adjust the Thickness Knob, turn the knob to the right or left. If the machine is experiencing consistent chains or doubles, adjust the Thickness Knob to allow the notes to pass through the JetScan without error. **Note: By turning the Thickness Knob to the right, the rollers are made tighter. This might be done when new or "brick" currency is being processed. By turning the Thickness Knob to the left, the rollers are made looser, thereby allowing the bills to flow through the JetScan easier. This might be done when older or dirty currency is being processed.**

OPERATING MODES

JetScan provides five basic operating modes for processing documents: STRANGER DETECT, MIXED, SORT, OFFSORT, and COUNT. Processing speed is 1200 documents per minute in all modes. The JetScan Models 4062, 4063, 4064, 4065, and 4068 scan and read U.S. currency only.

ADDITIONAL OPERATING MODES

Stranger Detect

Scans bills for a selected denomination and stops when another denomination is found.

Mixed

Scans bills of all denominations.

Sort

Scans bills of all denominations. Best used when bills are in a presorted stack, i.e., denominations are sorted, but stacked together.

GENERAL OPERATING PROCEDURES

OffSort	Scans bills of all denominations and stops for a selected denomination.
Count	Counts any currency, food stamps, coupons, etc., that fit the hopper and paper size specifications. In this mode, JetScan is only counting "slips of paper" (no currency scanning is taking place).
Facing Mode	<p>It is possible to use JetScan to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa). In a JetScan equipped with an optional second scan head, facing is only possible if this feature is enabled during setup and the machine is in STRANGER FACE, MIXED FACE, or SORT FACE.</p> <p>Using a JetScan with a single read head, facing is only possible when bills are fed through the machine green-side-up. Using a JetScan with a single read head, whether facing has been enabled or not, the machine will stop and give a NO CALL indication each time a black-side-up bill is encountered. This is true in all modes except COUNT.</p>
Orientation Mode	In the STRANGER ORIENT, MIXED ORIENT and SORT ORIENT modes, it is possible to stop on bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills, the machine will stop if a bill in any other orientation is found, and vice versa). This is only possible if the feature is enabled during setup. ORIENTATION mode operates the same whether the unit is equipped with one or two read heads.
MEMORY LEVELS	<p>JetScan has four memory levels:</p> <p>STRAP – Available in STRANGER DETECT, SORT, and COUNT modes. Strap Limits can be set at any number between 1-100 or at infinity. JetScan stops when reaching the Strap Limit.</p> <p>SUB-BATCH – Sub-Batch is monies processed from one or several sources and treated as sub groups within a Batch. This memory level tracks documents within a Sub-Batch. It is available in all operating modes.</p> <p>BATCH – A Batch is money that is recorded as coming from one general source and processed as an overall group. Batch tracks all documents processed. Available in all operating modes.</p> <p>DAY TOTAL – Tracks the grand total of currency processed since the last time "Day total" was cleared.</p>

GENERAL OPERATING PROCEDURES

SET-UP FIELDS

JetScan has 17 set-up fields that control a number of operating conditions. The fields are: DEFAULT TYPE, SUB-BATCH STATUS, MODE STATUS, KEY STATUS, AUDIO ALARM STATUS, DENOMIN KEYS USAGE, PORT 1 STATUS, PORT 2 STATUS, STRAPS CLEAR, STRANGER RECORD, MAGNETIC HEAD STATUS, SD FUNCTION CONTROL, COUNT MODE TRANSMIT, SEPARATE SERIES, COMM REPORT, SPEED SETUP, SETUP REPORT, PASSWORD, and PRINTER READY CHECK.

To set-up the various fields, depress the any key on the control panel while turning the power on. To turn JetScan on, press the switch located at the lower right rear corner of the machine (when facing the machine). Enter USER SET UP by pressing KEY 5, then pressing KEY 3. You may then scroll forward through the 17 fields with KEY 5 or backwards with the KEY 4. To change a particular field's setting, press the KEY 3 for an arrow prompt and then either KEY 13 (to scroll backwards) or KEY 14 (to scroll forward) to select among the options. To make a sub-selection within a field, press KEY 5 or KEY 4 to move the setting arrow. Then press KEY 13 or KEY 14 to make the sub-selection. Press KEY 6 to exit a set-up option and continue set-up selection. **Note: In order to save settings (or changes to settings), you must exit the set-up option (the arrow prompt must not appear on the display screen).** To exit set-up and begin operation, press KEY 7.

THE VARIOUS OPERATING FIELDS INCLUDE:

DEFAULT TYPE

Because JetScan can be used in a number of different working environments, it is built with two pre-programmed default settings: a "Factory" setting, and a "User" setting. The "User" setting allows you to customize the machine's default settings.

The settings for the preset "Factory" operating modes are:

<u>Status Item</u>	<u>Default Item</u>	<u>Factory</u>
Sub-Batch Status		Off
Mode Status	Count	On
	Stranger	On
	Stranger Face	Off
	Stranger Orient	Off
	Mixed	On
	Mix Face	Off
	Mix Orient	Off
	Sort	On
	Sort Face	Off
	Sort Orient	Off
	OffSort	On
Key Status	Unit	On

GENERAL OPERATING PROCEDURES

<u>Status Item</u>	<u>Default Item</u>	<u>Factory</u>
Key Status	Add	On
	Density	On
	Day	On
	Verify	On
Alarm Status	Suspect Document	On
	Stranger	Off
	Strap Limit	Off
	Denomination Change	Off
	Suspect Document	Off
	Chain	On
	Double	On
	Jam	On
No Call	Off	
Denomin Keys Usage	No Call	On
	Suspect Document	On
	Facing	Off
	Orientation	Off
Port 1 Status		Off
Port 2 Status		Off
Straps Clear		Manual
Stranger Record		Off
Magnetic Head Status	Mag HD	On
	UV + FL	Off
SD Function Control		On
Count Mode Transmit		On
Separate Series		Off
Comm Report		Normal
Speed Setup		LOW 600
		MEDIUM 1200
		HIGH 1500
Setup Print Report	-	
Password		Off
Printer Ready Check		Off

To select the mode in which the machine will operate, you must enter Setup fields.

If a Password has been set in setup (see page 18 for Password setup), the screen on the following page will appear:

GENERAL OPERATING PROCEDURES

Denomination Sub Batch Strap Count

ENTER 4 DIGIT PIN

0000

Mode Batch Strap Limit

The first digit should be marked with a blinking cursor box. Use Key 14 to increase the digit by a value of one. Use Key 13 to decrease the digit by a value of one. Press Key 4 to move the cursor to the left, and Key 5 to move the cursor to the right. When finished, press Key 6 enter the password. If an incorrect password is entered, the screen will ask the operator to "ENTER PIN AGAIN", using the above instructions. If the incorrect password is entered a second time, the machine will return to normal operating mode.

If the correct password is entered, the following screen will appear:

Denomination Sub Batch Strap Count

1) DEFAULT: press KEY 3

next selection: press KEY 5

Mode Batch Strap Limit

Press the KEY 3 to set the selected default mode as the current operating mode. A screen will appear indicating current Default setting. Pressing any key will exit set-up to normal operating mode.

Press the KEY 5 to proceed to the next Set-up type and the following screen:

Denomination Sub Batch Strap Count

2) USER SET UP: press KEY 3

next selection: press KEY 5

Mode Batch Strap Limit

Press the KEY 3 to enter set-up fields and select Default type setting. Note: After selecting Default type and settings, be sure to return to set-up and set the Default operating mode. Re-enter set-up by depressing a key on the control panel while turning the machine ON. In the first screen shown above, press the Key 3 to save default operating mode.

GENERAL OPERATING PROCEDURES

Press **KEY 5** to scroll forward to the third Set-up option or **KEY 3** to scroll backwards. Pressing the **KEY 5** will produce the following screen:

Denomination Sub Batch Strap Count

3) DIAG SET UP: press KEY 3
next selection: press KEY 5

Mode Batch Strap Limit

Press **KEY 7** to exit and return to normal operating mode or press **KEY 5** to go back to the Default screen.

SUB-BATCH STATUS

When using the ADD function, JetScan automatically records Sub-Batches if this status is set to ON. Within this field it is possible to select whether a printout will be generated each time a Sub-Batch is ended. The default is sub-batch OFF. In order to generate a print report each time a Sub-Batch is cleared, this mode must be set to ON PRINT.

MODE STATUS

Mode status turns the 11 operating modes (Stranger, Stranger Face, Stranger Orient, Mixed, Mixed Face, Mix Orient, Sort, Sort Face, Sort Orient, Offsort, and Count) ON or OFF.

KEY STATUS

Allows **UNIT, ADD, DENSITY, DAY, VERIFY, and SUSPECT DOCUMENT**, keys to be "locked out" (i.e., when pressed during operation, nothing happens).

AUDIO ALARM

The audio alarm sounds for Stranger Detect, Strap Limit, Denomination Change, Suspect Document, Chaining Errors, Doubles, Jams, and No Call. The alarm will sound three beeps for a Jam, Double, or Chaining Errors, and one beep for each of the other conditions. The alarm can be turned ON or OFF for each condition. Whether it is ON or OFF depends on the setup of the machine, but defaults to ON for Jams Doubles and Chaining Errors, OFF for the other conditions.

DENOMINATION VALUE KEYS USAGE

JetScan includes a feature that allows adding to the recorded totals when certain stopping conditions occur. For example, when a No Call, Suspect Document, Facing Error, or Orientation Error occurs, you have the option of either taking the top bill in the stacker and returning it to the hopper and pressing the **CONT** key (Key 3), or simply pressing the "**DENOMINATION VALUE**" key that corresponds to the top bill in the stacker. When this key is pressed, the denomination value is added to the value of the currency processed and the machine resumes counting. This feature can be turned ON or OFF for the four stopping conditions with this setup field. More on

GENERAL OPERATING PROCEDURES

	the operation of this function appears under the descriptions of the major operating modes.
PORT 1 STATUS	This port is used when interfacing with a computer, our own cash settlement system (CISS), CISS+ST (status), CRM (Cash Room Manager) JetSort, printer and remote display.
PORT 2 STATUS	This port is also used when interfacing with a computer, our own cash settlement system (CISS), CISS+ST (status), CRM (Cash Room Manager) JetSort, printer and remote display.
STRAPS CLEAR	This field may be set to one of two conditions. The MANUAL setting keeps Strap Counts in memory until a Strap Limit is reached or Straps are cleared manually using the CLEAR key (Key 1). The END BTCH setting automatically clears all Strap Counts each time a Batch is cleared.
STRANGER RECORD	In Stranger Mode, the machine will record all the "stranger" bills encountered in the Batch total, and track them against their respective Strap Counts.
MAGNETIC HEAD STATUS	The magnetic head function and enhanced UV/Fluorescence feature (included only on model 4065) for suspect document detection can be enabled if the magnetic head or UV/FL head is installed, otherwise it should be disabled. Please refer to Product Line Features on page 7. Note: For machines without magnetic and/or UV/FL SD, settings should be disabled (OFF).
SD FUNCTION CONTROL	Enables or disables the ability to turn on or off the suspect document function. If the suspect document function is on (SD light lit) and the SD Function Control is turned OFF, this will prevent the operator from accidentally turning the SD function off in all modes.
COUNT MODE TRANSMIT	This special mode enables (ON) or disables (OFF) standard computer communications (COMP) in the COUNT mode only.
SEPARATE SERIES	This special mode enables (ON) or disables (OFF) the ability to distinguish between old and new series bills while in the stranger mode only.
COMM REPORT	This field enables normal communications report format or Wedge communications report format. When connected to Cummins' software Wedge, be sure to set Port 1 or Port 2 to standard computer interface (COMP) and COMM Report to "Wedge." In all other circumstances, set COMM Report to "Normal."
SPEED SETUP	Speed Setup allows the adjustment of processing speeds for the LOW, MED, and HI setting. Speeds of 600, 800, 1000, 1200, and 1500 may be selected for each speed setting.

GENERAL OPERATING PROCEDURES

SETUP REPORT

This field will appear *only* if Port 1 or Port 2 is set to PRINTER. By pressing KEY 3 a print report is sent to the printer. See Print Reports on page 36 for an example.

PASSWORD

Select ON to enable the password feature if the password has already been set. Select NEW to enable the password feature and set the password. If no password has been set previously, ON works the same as NEW.

If the selection involves setting a new password, JetScan will return to the User Setup menu. If a new password is requested, the operator will be required to enter a 4 digit pin. Use Key 14 to increase the marked digit by one unit. Use Key 13 to decrease the marked digit by one. Key 5 moves the cursor to the right, and Key 4 moves the cursor left. Once the password is complete, press Key 6 to enter. After it has been entered the first time, the operator will be required to enter it again for verification.

Each time an operator needs to default the machine, or enter setup or diagnostics, this 4 digit password will be required.

PRINTER READY CHECK

If a printer, other than Cummins' Citizen printer models, is connected to JetScan, this feature may be turned OFF. If a Citizen printer is used, this feature should be enabled to allow the JetScan to notify the operator whether a Cummins Citizen printer has been disconnected.

DENSITY OPERATION

Density is used to set doubles detection sensitivity for currency and for food stamps. Though adjusting this sensitivity is not a part of configuring the set-up fields, it should be adjusted before processing currency.

To adjust density for currency, the machine must be in a "normal time-out" status. Press the DENSITY key (Key 12). The default setting is "3". The display will read:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	DENSITY SENSITIVITY
	3

Mode	Batch	Strap Limit
------	-------	-------------

There are six settings for density: 1, 2, 3, 4, 5, and OFF. If JetScan is detecting doubles frequently, scroll to a lower (less sensitive) setting by pressing the DENSITY key (Key 12).

GENERAL OPERATING PROCEDURES

It is also possible to set density for individual denominations. To do this, press the **DENOM** key (Key 13) to scroll to a specific denomination. Press the **DENSITY** key (Key 12) to change the setting. To exit, press any key except **DENSITY** or **DENOM**.

If JetScan is frequently passing doubles, scroll to a higher (more sensitive) setting. You may disengage doubles detection for individual denominations by turning the density setting to OFF. To leave the **DENSITY** mode, simply press any key except **DENSITY** or **DENOM** and JetScan returns to the exact processing state it was in before exiting for the density adjustment.

When in the **COUNT** mode, to adjust the sensitivity for food stamps, follow the same procedure used to set up for currency. When the **DENSITY SETTING** screen appears, press the **MODE** key (Key 7). The letters **FS** will appear on the screen. Density may now be set for food stamps. Pressing the **MODE** key again returns to the currency screen.

CHOOSING A MODE OF OPERATION

When JetScan is turned on, it defaults to the mode it was in when last turned off.

To choose a mode of operation simply press the **MODE** key (Key 7), which moves the display through each operating mode.

SETTING STRAP LIMITS

JetScan allows you to set individual Strap Limits for each specific denomination. Straps may be set for any piece count between 1-100. There are eight preset strap levels: 5, 10, 20, 25, 50, 75, 100, and infinity. Repeatedly pressing the **SET STRAP** key (Key 14) allows you to select among the eight values. The following screen shows the strap set to "50" in the **STRANGER** mode.

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$ 0	\$ 0
STRNGR	\$ 0	\$ 50

Mode	Batch	Strap Limit
------	-------	-------------

To select a Strap Limit between 1-100 that is not a preset quantity (e.g., "30"), press the **SET STRAP** key (Key 14) until the display shows the preset level nearest and below the desired number. If you continue to hold down the **SET STRAP** key, the value will increase in single digit increments until you reach the desired level.

Strap Limits are available in all operating modes except **MIXED**.

GENERAL OPERATING PROCEDURES

SETTING SUSPECT DOCUMENT DETECTION

UV, Fluorescence and Magnetic Suspect Document detection is enabled by pressing the SD key (Key 11). The red LED illuminates to indicate that the Suspect Document feature is enabled. This key may be "locked" ON or OFF in set-up.

JetScan allows for the setting of different sensitivity levels of UV, Fluorescence, and Magnetics for individual denominations. To make this adjustment, press and hold the SD key. A screen will appear showing the current denomination and each sensitivity setting.

Denomination Sub Batch Strap Count

	UV	FLUOR	MAG
\$1	OFF	5	5

Mode Batch Strap Limit

To alter the sensitivity level, press the ALL STRAP (key 5) or DAY key (Key 4) and scroll to the desired level using the SET STRAP key (Key 14).

Only JetScan model 4065 is equipped with UV/FL, therefore all other models (4062, 4063, 4064, and 4068) should set UV/FL sensitivity settings to OFF. If the machine is not equipped with magnetic SD, sensitivity setting must remain OFF as well.

Note: The lower the sensitivity level, the greater the opportunity to pass a counterfeit bill. The higher the sensitivity level, the greater the opportunity to stop on a good (non-counterfeit) bill. The appropriate level of sensitivity will depend on the individual machine, the condition of the currency and the counterfeit bill frequency.

To change the sensitivity of another denomination, press the DENOM key and scroll through the denominations.

To leave the Suspect Document screen, press the CONT key (Key 3).

For information on how to handle a suspect document during processing, see "Stop Conditions" later in this manual.

VERIFICATION FUNCTION

The verify function makes it possible to reconcile any count through the machine that is suspected of being erroneous. This function reproduces the functions of the present operating mode, but starts with all totals at zero.

GENERAL OPERATING PROCEDURES

Press the **VERIFY** key (Key 9) and JetScan will enter the **VERIFY** mode. Note that the red LED is illuminated over the **VERIFY** key.

Denomination	Sub Batch	Strap Count
\$1	\$ 0	\$ 0
STRNGR	\$ 0	\$ 50

Mode	Batch	Strap Limit
------	-------	-------------

JetScan is now ready to verify the count. Simply process the documents again following the normal procedure. To return to normal operating status (exactly where processing left off before verification), press the **VERIFY** key again.

SUB-BATCH/BATCH RECONCILIATION

It is possible to reconcile Sub-Batch, Batch and Day totals if a processed group of currency is suspected of being erroneous. By simply pressing the **CLEAR** key, followed by the **END BAT** (Batch) or **SUB BAT** (Sub-Batch) key (whichever applies), the JetScan will erase the current Sub-Batch or Batch count, reconcile the Day total, and reset for the processing of additional currency.

You may now re-process the currency to ensure accuracy and the correct totals will be added to memory. This reconciliation process can continue until you are satisfied with the count accuracy.

FACING CURRENCY

It is possible to use JetScan to face currency. This feature makes it possible to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa).

In a JetScan equipped with a single scanning head, it is not necessary for facing to be enabled during set-up. This is because bills must always be placed in the hopper green side up. In all modes except **COUNT**, the machine will stop each time it finds a bill that is faced improperly and the screen will read "NO CALL". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the **CONT** key.

With a JetScan equipped with an optional second scan head, currency can be faced green side up or black side up. To do this, move to the **STRFCE** (Stranger Face), **MIXFCE** (Mix Face), or **SRTFCE** (Sort Face) mode if facing was enabled during set-up.

GENERAL OPERATING PROCEDURES

Place currency in the hopper with the bottom bill faced in the direction you want all bills faced i.e., green side up or black side up (JetScan will use this as a reference, stopping at any bill that does not match this facing). The machine will begin processing currency. It will stop each time it finds a bill that is faced improperly and the screen will read "FACING ERROR". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the top bill in the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key.

ORIENTING CURRENCY

It is possible to use the machine to orient currency (also called "Heading" currency) if this feature has been activated during set-up. Orienting can be performed whether the machine has a single read head or is equipped with an optional additional read head. With this feature, it is possible to select bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills; the machine will stop if a bill in any other orientation is found).

To do this, move to the STRORT (Stranger Orient), MIXORT (Mix Orient), or SRTORT (Sort Orient) mode.

Place the currency in the hopper. Always have the bottom bill aligned with the desired portrait orientation in the hopper. This is the orientation JetScan will use as a reference and will stop on all bills that are aligned in the opposite direction. The machine will begin to read the currency. Every time the machine stops, and the display reads ORIENTATION ERROR the bill in the stacker will be oriented improperly. If the "Denomination Value" keys have been activated, simply press the one corresponding to the value of the top bill in the stacker. The machine will resume processing with the correct total.

When using a JetScan equipped with two read heads, and encountering an unfaced bill, the machine will stop and the display will read "ORIENTATION ERROR". Correctly orient/face the bill and press the "Denomination Value" key to restart the machine.

If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key.

GENERAL OPERATING PROCEDURES

STOP CONDITIONS

JetScan will stop for any one of eleven reasons, all of which require action on your part.

Normal "Time-out"

Documents are fed from the top hopper to the stacker until the hopper is empty. The machine will "time-out" in two seconds and is ready for the next group of documents. This stop condition is present in all 11 operating modes.

Stranger Detect

The machine has stopped because a bill other than the expected denomination has been detected. The machine stops with the display reading REMOVE STRANGER. You must remove the "stranger" bill from the stacker and press the CONT key (Key 3). The machine will then resume processing from the previous bill count. This stop condition only occurs in the STRANGER DETECT, STRANGER FACE, or STRANGER ORIENT modes.

NOTE: If the stranger record feature (see set-up instructions) is being used, the value of the "stranger" bill is added to it's own respective totals—Strap, Sub-Batch, Individual Denomination and Batch.

Denomination Change

The machine has stopped because it has detected a new denomination value. The display will read "DENOMINATION CHANGE". To resume processing, remove the bills from the hopper and the machine will resume processing. This stop condition will only occur in the SORT mode.

No Call

The machine has read a bill it cannot identify. This could be caused by the bill skew, bill condition, a foreign object, an unfaced bill, or other reason. The machine will stop and NO CALL REMOVE BILL will appear on the display. There are two ways to continue. The first involves the use of the "Denomination Value" keys: **MODE (\$1)**, **ADD (\$5)**, **VERIFY (\$10)**, **UNIT (\$20)**, **SD (\$50)**, **DENSITY (\$100)**, and **DENOM (\$2)**. If, during setup, these keys have been activated, simply pressing the key that corresponds to the top bill in the stacker will add that amount to the machine's total and restart the machine. More details concerning the use of the "Denomination Value" keys appears in the descriptions for the individual operating modes.

If these keys have not been activated, remove the bill from the stacker. Place it back in the hopper, and press the CONT key (Key 3). The machine will continue processing from the previous bill count with no effect on the Strap, Sub-Batch, Individual Denomination and Batch quantity.

This stop condition will occur in the STRANGER, MIXED, SORT, STRANGER FACE, STRANGER ORIENT, MIXED FACE, MIXED ORIENT, SORT FACE, SORT ORIENT, modes.

Strap Limit

The machine has reached a Strap Limit. The machine will stop and the display will read STRAP LIMIT for that denomination. Remove the bills from the stacker and the machine will automatically clear the Strap and will con-

GENERAL OPERATING PROCEDURES

Suspect Document

continue counting, provided there are still bills in the machine. This stop condition will occur in the STRANGER, COUNT, SORT, STRANGER FACE, STRANGER ORIENT, SORT FACE, and SORT ORIENT modes.

For machines equipped with Counterfeit Detection, the machine will stop for a possible counterfeit bill. The machine will stop and toggle between two screens: "SUSPECT DOCUMENT." "M" indicates Magnetic, "FL" represents Fluorescence, and "UV" represents UV. The second screen will display "CHECK NOTE/PRESS KEY 3."

To continue processing, the operator has two options to recover:

- 1) Remove the "suspect" bill from the stacker and press the CONT key (Key 3). The machine will continue processing from the previous bill count with no impact on the Total count.
- 2) The second involves the use of the "Denomination Value" keys: MODE (\$1), ADD (\$5), VERIFY (\$10), UNIT (\$20), SD (\$50), DENSITY (\$100), and DENOM (\$2). If, during setup, these keys have been activated, simply pressing the key that corresponds to the top bill in the stacker will add that amount to the machine's total and restart the machine. (More details concerning the use of the "Denomination Value" keys appears in the descriptions for the individual operating modes.) However, if the operator removes the bills in the stacker, without pressing the CONT key (Key 3) and the hopper is empty, JetScan will beep three times and flush the last bill out of the machine. The machine will add that last bill, but the total will not include the counterfeit note.

The Suspect Document stop condition will only be present when suspect document detection is enabled.

Jam

The machine has jammed. The display will read "JAM REMOVE HOPPER". To clear jam, remove the hopper tray as well as any currency left in the hopper. Carefully pull cover plate up and off by grasping onto the two slots. The display will then read:

Denomination Sub Batch Strap Count

ATTACH HANDLES TO SHAFT
<CLEAR> = FWD <STRAPS> = REV

Mode Batch Strap Limit

Firmly grab the two black handles/clasps with forefingers and hook both over the shaft. If there is a possibility an object besides bills (i.e. paper clips)

GENERAL OPERATING PROCEDURES

has jammed, then use the drum rollers to manually remove objects and/or bills. Otherwise press the **CLEAR** key (Key 1) to move rollers forward or the **STRAP** key (Key 2) to reverse and flush the machine.

The Strap, Sub-Batch, Individual Denomination and Batch Counts will revert to the values that existed prior to the run that caused the jam. Remove the black handles/clasps off the shaft and replace cover plate and hopper tray. Remove the documents from the stacker and feed all documents into the machine. This stop condition is present in all operating modes.

Chains (Chain and Chain*)

The machine has run two or more documents through the reading mechanism without the proper spacing. The display will read CHAIN DETECTED. Remove the documents from the stacker and place them back into the hopper. Press the **CONT** key (Key 3). The machine will continue processing from the previous bill count with no impact on Strap, Sub-Batch, Individual Denomination, Batch and Day counts.

Doubles

The machine has run two documents through the reading mechanism simultaneously (stacked on top of one another). The display will read DOUBLE DETECTED. Remove the documents from the stacker and place them back into the hopper. Press the **CONT** key (Key 3). The machine will continue processing from the previous bill count with no impact on Strap, Sub-Batch, Individual Denomination, Batch and Day counts. This stop condition is present in all operating modes.

Facing Error

When using a JetScan with one read head in a **FACING** mode, the machine will stop and the display will read **NO CALL** each time the bill in the stacker is either unreadable or not faced properly. In the case of an improperly faced bill, simply face the bill properly and press the appropriate "Denomination Value" key (if they have been activated in set-up). The correct amount will be added to the total and the machine will continue processing. If these keys have not been activated, remove the bill from the stacker and return it to the hopper in the correct orientation (it has not been added to the total) for further processing, and press the **CONT** key (Key 3).

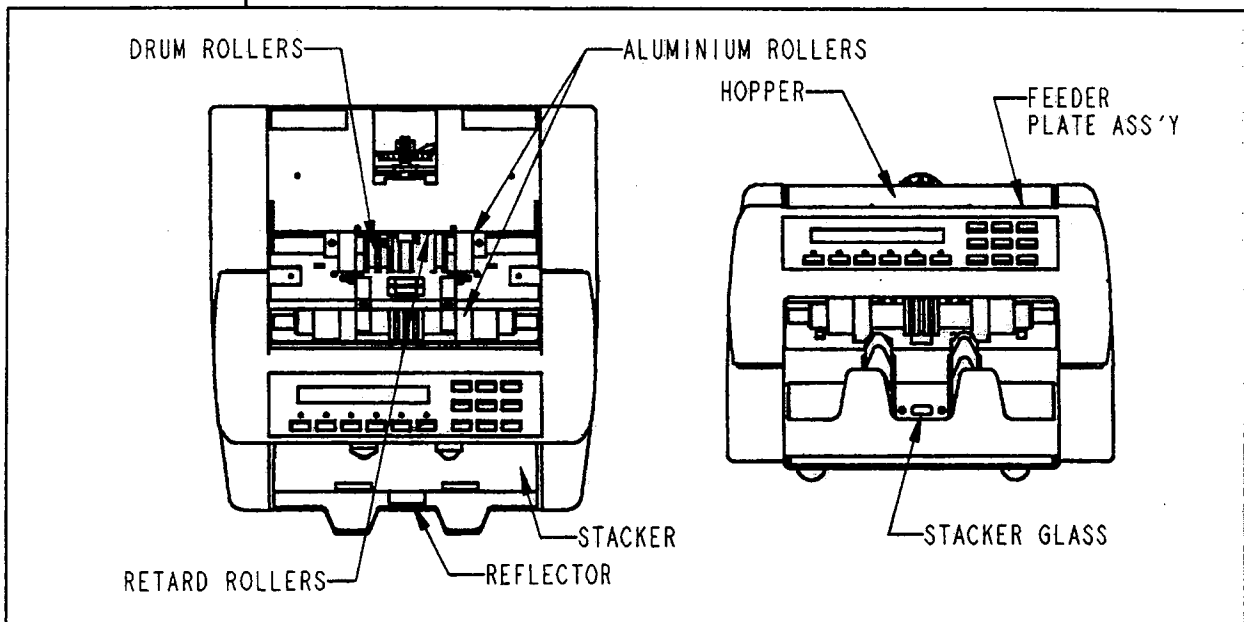
When using a JetScan with two read heads in a **FACING** mode, the machine will stop and display **FACING ERROR** each time the bill in the stacker is not faced properly. Simply face the bill properly and press the appropriate "Denomination Value" key (if they have been activated in set-up). The correct amount will be added to the total and the machine will continue processing. If these keys have not been activated, remove the bill from the stacker and return it to the hopper in the correct orientation (it has not been added to the total) for further processing, and press the **CONT** key (Key 3).

Orientation Error

When the machine is in an **ORIENTATION** mode it will stop, and the display will read **ORIENTATION ERROR** each time the bill in the stacker is not

GENERAL OPERATING PROCEDURES

oriented properly. Simply orient the bill properly and press the appropriate "Denomination Value" key (if they have been activated in set-up) and the correct amount will be added to the total and the machine will continue processing. If these keys have not been activated, remove the bill from the stacker and return it to the hopper in the correct orientation (it has not been added to the total) for further processing, and press the CONT key (Key 3).



DAILY MAINTENANCE ROUTINE

The JetScan should be cleaned and given routine maintenance on a regular basis. To perform this maintenance you will need:

- A soft cotton cloth
- Cummins Roll Cleaner (Part #022-1725-00) — (800) 786-5103 \$75 - CASE of 12
- Cummins "UltraJet" Spray Air (Part #022-1651-00)

The following maintenance procedure should be performed every day.

- Use a pressurized aerosol duster, such as Cummins "UltraJet", to blow the dust out of the hopper side of the currency path.
- Blow the dust from the area around the aluminum rollers.
- Blow the dust out of the stacker area.
- Spray a small amount of roll cleaner on a rag and clean the retard drum rollers. **Note: Do not spray the roll cleaner directly into the JetScan.**
- Replace the feeder plate assembly and blow out any dust in the hopper area.
- Clean the glass and the metal reflector in the stacker.

BATCH, SUB-BATCH AND DAY TOTALS

CLEARING A BATCH TOTAL

Clearing Batch totals is accomplished using the **END BAT** key (Key 15). Pressing this key returns both the Batch and the Sub-Batch to zero and generates a print and/or computer report, if this option was activated during set-up.

IT IS IMPORTANT TO NOTE THAT CLEARING BATCHES CLEARS THE BATCH AND SUB-BATCH COMPLETELY. ONCE THE TOTALS HAVE BEEN CLEARED, THEY CANNOT BE RECOVERED.

For an example of the clearing process, assume that \$100 has been processed in the SORT mode. The screen may look like this:

Denomination	Sub Batch	Strap Count
\$1	\$ 20	\$ 20
SORT	\$ 100	\$ 50

Mode	Batch	Strap Limit
------	-------	-------------

To clear the Batch total, press the **END BAT** key (Key 15). The screen now looks like this:

Denomination	Sub Batch	Strap Count
\$1	\$ 0	\$ 20
SORT	\$ 0	\$ 50

Mode	Batch	Strap Limit
------	-------	-------------

Note that clearing the Batch total also clears any Sub-Batch totals (Sub-Batch totals appear above the Batch total). It may be noted, too, that clearing the Batch total did not affect the Strap value unless the **STRAPS CLEAR END BATCH** was engaged during setup (see page 19).

CLEARING SUB-BATCHES

Assume that \$100 has been processed in the SORT mode. For this example, the screen will look like this:

Denomination	Sub Batch	Strap Count
\$10	\$ 100	\$ 30
SORT	\$ 100	\$ 1000

Mode	Batch	Strap Limit
------	-------	-------------

BATCH, SUB-BATCH AND DAY TOTALS

To clear the Sub-Batch total in preparation for starting a new Sub-Batch, simply remove the bills from the stacker and press the END SUB key (Key 6). Once it is pressed, the screen looks like this:

Denomination	Sub Batch	Strap Count
\$10	\$ 0	\$ 30
SORT	\$ 100	\$ 1000

Mode	Batch	Strap Limit
------	-------	-------------

Note that the Batch total and the Strap Counts are not affected. If a printer is attached and activated, a Sub-Batch report will be generated.

CLEARING STRAPS

Straps may be cleared for individual denominations or for all denominations at once. Using the example above, \$100 is processed in the SORT mode, producing this screen:

Denomination	Sub Batch	Strap Count
\$10	\$ 100	\$ 30
SORT	\$ 100	\$ 1000

Mode	Batch	Strap Limit
------	-------	-------------

Pressing the CLEAR key (Key 1) presents the CLEAR? prompt on the display:

Denomination	Sub Batch	Strap Count
CLEAR?		

Mode	Batch	Strap Limit
------	-------	-------------

BATCH, SUB-BATCH AND DAY TOTALS

Press the **DAY** key (Key 4) once and the screen will change to:

Denomination Sub Batch Strap Count

CLEARING DAY TOTALS

Mode Batch Strap Limit

**IT IS IMPORTANT TO NOTE THAT CLEARING DAY TOTALS
CLEARS THE DAY TOTAL COMPLETELY. ONCE THE TOTAL HAS
BEEN CLEARED, IT CANNOT BE RECOVERED.**

REVIEWING SUB-BATCH, BATCH, STRAP AND DAY TOTALS FOR INDIVIDUAL DENOMINATIONS

Assume that \$230 has been processed of which \$30 are \$1.00 bills, and \$200 are \$5.00 bills.

Denomination Sub Batch Strap Count

\$5	\$ 230	\$ 200
SORT	\$ 230	\$ 500

Mode Batch Strap Limit

Press the DENOM key (Key 13) and scroll to the \$1.00 denomination for review:

Denomination Sub Batch Strap Count

\$1	\$ 30	\$ 30
SORT	\$ 30	\$ 100

Mode Batch Strap Limit

This display indicates that the denominational Batch total for \$1.00 bills is \$30. It also indicates that the \$1.00 Strap total is currently \$30, and the \$1.00 denominational Sub-Batch total is \$30.

Press the DENOM key (Key 13) to scroll to the \$5.00 totals:

Denomination Sub Batch Strap Count

\$5	\$ 200	\$ 200
SORT	\$ 200	\$ 500

Mode Batch Strap Limit

The display now shows the Batch to be \$200, which is the total of \$5.00 bills in this Batch. The display shows the \$5.00 Strap and Sub-Batch total, which is displayed as \$200 for each.

REVIEWING SUB-BATCH, BATCH, STRAP AND DAY TOTALS FOR INDIVIDUAL DENOMINATIONS

REVIEWING DAY TOTALS

Press the **DAY** key (Key 4). The display will read:

Denomination Sub Batch Strap Count

DAY TOTAL		
\$230		

Mode Batch Strap Limit

This is the grand total of currency processed since the last time the Day total was cleared.

To review Individual Denomination Day totals, press the **DENOM** key (Key 13) and scroll to the desired denomination. This is an example of what the screen might look like for the \$5.00 total:

Denomination Sub Batch Strap Count

\$5	DAY TOTAL	
	\$ 7500	

Mode Batch Strap Limit

PRINTING REPORTS

Port #1 or Port #2 on the rear of the JetScan (the bottom connector at lower right hand corner when facing the front of the machine) is designed for the connection of a printer. The printer can be enabled or disabled during the setup process.

Generating reports:

If the ADD function is enabled, printer Batch reports are sent when the **END BAT** (Key 15) or **END SUB** key (Key 6) is used to clear a Batch or Sub-Batch accumulations.

To generate Sub-Batch reports, it is necessary that the Sub-Batch set-up field be enabled in the ON PRNT setting. Reports will ONLY be sent when ON PRNT is selected in set-up. Simply setting Sub-Batch status ON will not generate print reports. It is also necessary to select PRINTER in set-up field #8 (PORT 2 STATUS) and to set speeds, etc., to match those of your printer.

If sub-batching has been enabled and the **ADD** key (Key 8) is ON, Sub-Batches will accumulate and a report will be sent to the printer when the Sub-Batch is cleared by pressing the **END SUB** key (Key 6). The last Sub-Batch processed will be sent to the printer automatically when the Batch is cleared, unless previously sent using the **END SUB** key (Key 6).

When the ADD function is disabled, print reports are sent to the printer automatically. They are sent when the machine is in "time-out" and the stacker has been cleared of documents. Since there is no Sub-Batch when the ADD function is "OFF", only Batch reports are sent.

Each report generated by JetScan features a number immediately below the name of the report. The first five digits in this number indicate the transaction number of this report among all reports sent to the printer. It will increase by one digit each time a report is sent and will reset to zero each time the Day total is cleared.

The next four digits indicate Batch number.

The final three digits indicate Sub-Batch number.

BATCH AND SUB-BATCH REPORTS

REPORT APPEARANCE

PRINTING REPORTS

If the ADD function is enabled:

SUB-BATCH REPORT			
00001-0001-001			
DENOM	UNIT		VALUE
\$1	97	\$	97
SUB-BATCH		97	\$ 97
TOTAL			

SUB-BATCH REPORT			
00002-0001-002			
DENOM	UNIT		VALUE
\$1	124	\$	124
\$10	34	\$	340
SUB-BATCH		158	\$ 456
TOTAL			

SUB-BATCH REPORT			
00003-0001-003			
DENOM	UNIT		VALUE
\$2	1	\$	2
\$10	3	\$	30
SUB-BATCH		4	\$ 32
TOTAL			

PRINTING REPORTS

BATCH REPORT
00004-0001-000

DENOM	UNIT	VALUE
\$1	221	\$ 221
\$5	1	\$ 2
\$10	37	\$ 370
BATCH	259	\$ 593
TOTAL		

If ADD function is not enabled

BATCH REPORT
00001-0001-000

DENOM	UNIT	VALUE
\$1	60	\$ 60
\$5	29	\$ 145
\$10	8	\$ 80
BATCH	97	\$ 285
TOTAL		

STRAP REPORTS

For modes other than MIXED mode, a Strap report can be sent to the printer. This report is automatically sent when all Straps are cleared by pressing the CLEAR key (Key 1) and then the ALL STRAP key (Key 5). Generating this report resets all Strap Counts to zero.

Report appearance:

FULL STRAPS REPORT

DENOM	STRAPS
\$1	6
\$5	4
\$10	2

PRINTING REPORTS

DAY TOTAL REPORTS

Day total reports are automatically generated when Day totals are cleared. To do this, press the **CLEAR** key (Key 1). This screen appears:

Denomination Sub Batch Strap Count

CLEAR?

Mode Batch Strap Limit

Press the **DAY** key (Key 4) once and the screen will change to:

Denomination Sub Batch Strap Count

CLEARING DAY TOTALS

Mode Batch Strap Limit

If a printer is attached to JetScan, this printout will be automatically generated.

DAY REPORT			
DENOM	UNIT		VALUE
\$1	263	\$	263
\$2	1	\$	2
\$10	37	\$	370
DAY TOTAL	301	\$	635

PRINTING REPORTS

SETUP REPORT

This print report is only generated in setup fields, when Port 1 or Port 2 is set to PRINTER. In Setup, the following screen appears:

Denomination Sub Batch Strap Count

17) SETUP REPORT
Press KEY 3 to print

Mode Batch Strap Limit

Press KEY 3 to generate the SETUP report. To cancel printing, press KEY 6.

JETSCAN SETUP

DATE: _____

Serial number:
CORE:020-4062-20R03
020-4062-21R13

DEFAULT TYPE	USER
SUB-BATCH STATUS	ON PRNT

MODE STATUS

COUNT	ON
STRANGER	ON
STR-FACE	OFF
STR-ORNT	OFF
MIXED	ON
MIX-FACE	OFF
MIX-ORNT	OFF
SORT	ON
SRT-FACE	OFF
SRT-ORNT	OFF
OFFSORT	ON

PRINTING REPORTS

KEY STATUS

UNIT	ON
ADD	ON
DENSITY	ON
DAY	ON
VERIFY	ON
SPCT DC	ON

AUDIO ALARM STATUS

NO CALL	OFF
STRNGER	OFF
STRP LM	OFF
DNM CHG	OFF
SPCT DC	OFF
CHAIN	ON
DOUBLE	ON
JAM	ON

DENOM KEYS USAGE

NO CALL	ON
SUSP DOC	ON
FACING	OFF
ORIENT	OFF

PORT 1 STATUS

PRINTER	2400	7 NONE
---------	------	--------

PORT 2 STATUS

OFF	1200	7 NONE
-----	------	--------

STRAPS CLEAR

MANUAL

STRANGER RECORD

OFF

MAGNETIC HEAD STATUS

MAG HD	ON
UV+FL	OFF

SD FUNCTION CONTROL

ON

COUNT MODE TRANSMIT

ON

SEPARATE SERIES OFF

COMM REPORT

NORMAL

STRANGER DETECT MODE OPERATION

SET-UP PROCEDURE

STRANGER DETECT mode scans bills for a selected denomination and stops when another denomination is found.

Turn JetScan on by pressing the power switch at the lower right rear corner of the machine.

Press the **MODE** key (Key 7) to select STRANGER, STRANGER FACE, or STRANGER ORIENT.

With the **ADD** key (Key 8) ON, Sub-Batch set to ON in set-up, and the STRANGER mode selected, the display shows :

Denomination	Sub Batch	Strap Count
\$1	\$ 0	\$ 0
STRNGR	\$ 0	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

JetScan defaults to the \$1.00 denomination with a Strap Limit of 100 bills.

The JetScan will operate in the same manner whether the unit you are using has a single scanning head or an optional second scanning head, except in the STRANGER FACE mode and in the way bills must be placed in the hopper.

If the JetScan you are using has a single scanning head, it is necessary to place all bills in the hopper green side up. Any bill that is not green side up will cause a NO CALL and stop the machine. If the JetScan is equipped with two scanning heads, the bills can be placed in the hopper in any orientation.

JetScan may also stop if one of the following conditions occurs: JAM, CHAIN, DOUBLE, SUSPECT, STRAP LIMIT, STRANGER, FACING ERROR, or ORIENTATION ERROR. Consult the "STOP CONDITIONS" section for instructions on handling these specific conditions.

Whether the unit has one head or two, make sure that all bills are stacked neatly and that the desired denomination to be scanned is on the bottom of the stack. Place the new stack of bills in the hopper. The machine will now scan for the bottom bill of the new stack in the hopper.

STRANGER DETECT MODE OPERATION

USING DENOMINATION VALUE KEYS

Based on the denomination of that bottom bill, the machine will stop on every "stranger" it encounters. A "stranger" is defined as any bill other than the selected denomination.

When a "stranger" bill is found, the machine will stop and the stranger bill will be the very top one in the stacker. Remove the stranger bill and press the CONT key (Key 3) to continue. If STRANGER RECORD was selected during setup, the stranger will be added to all appropriate totals. If STRANGER RECORD was not enabled, the stranger will not be added to the totals.

The "Denomination Value" keys operate the same in STRANGER DETECT mode as they do in other modes, with a single exception.

Say, for example, \$5.00 bills were passing through the machine, the "Denomination Value" keys were activated, and a NO CALL occurs, JetScan will stop and the screen would read NO CALL REMOVE BILL.

Pressing the \$10 "Denomination Value" key would produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$10	STRANGER?	
-------------	------------------	--

Mode	Batch	Strap Limit
------	-------	-------------

If the \$10 key had been pressed in error, pressing the \$5 key would add \$5.00 to the total and processing would continue.

If, however, the \$10 key was pressed intentionally, pressing it again would produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

REMOVE STRANGER		
------------------------	--	--

Mode	Batch	Strap Limit
------	-------	-------------

Removing the \$10.00 from the stacker and pressing the CONT key (Key 3) will add \$10 to the total (ONLY if STRANGER RECORD was activated during set-up) and resume processing. The "stranger" will not be counted towards the various totals UNLESS the special STRANGER RECORD set-up option has been initialized during set-up.

STRANGER DETECT MODE OPERATION

USING DENOMINATION VALUE KEYS

Based on the denomination of that bottom bill, the machine will stop on every "stranger" it encounters. A "stranger" is defined as any bill other than the selected denomination.

When a "stranger" bill is found, the machine will stop and the stranger bill will be the very top one in the stacker. Remove the stranger bill and press the CONT key (Key 3) to continue. If STRANGER RECORD was selected during setup, the stranger will be added to all appropriate totals. If STRANGER RECORD was not enabled, the stranger will not be added to the totals.

The "Denomination Value" keys operate the same in STRANGER DETECT mode as they do in other modes, with a single exception.

Say, for example, \$5.00 bills were passing through the machine, the "Denomination Value" keys were activated, and a NO CALL occurs, JetScan will stop and the screen would read NO CALL REMOVE BILL.

Pressing the \$10 "Denomination Value" key would produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$10	STRANGER?	
-------------	------------------	--

Mode	Batch	Strap Limit
------	-------	-------------

If the \$10 key had been pressed in error, pressing the \$5 key would add \$5.00 to the total and processing would continue.

If, however, the \$10 key was pressed intentionally, pressing it again would produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

REMOVE STRANGER

Mode	Batch	Strap Limit
------	-------	-------------

Removing the \$10.00 from the stacker and pressing the CONT key (Key 3) will add \$10 to the total (ONLY if STRANGER RECORD was activated during set-up) and resume processing. The "stranger" will not be counted towards the various totals UNLESS the special STRANGER RECORD set-up option has been initialized during set-up.

STRANGER DETECT MODE OPERATION

BATCH ACCUMULATION, ADD FUNCTION "OFF"

Operating in STRANGER.DETECT mode with the ADD key (Key 8) off produces this screen when \$45 in \$1 bills are processed:

Denomination	Sub Batch	Strap Count
\$1		
STRNGR	\$ 45	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

The number over the STRAP LIMIT label is the current Strap Limit. The number on the bottom row above the label BATCH indicates the current count. If the bills are left in the stacker, then the next run will be added to the Batch. If the bills are removed from the stacker, then the next run will restart from zero.

Assume that the bills were left in the stacker, and another 55 had been run. The machine will "time out" showing a Strap Limit has been reached.

Denomination	Sub Batch	Strap Count
\$1		
	\$1	STRAP LIMIT

Mode	Batch	Strap Limit
------	-------	-------------

Once bills are removed from the stacker the machine automatically resumes counting until it either counts all the bills in the hopper or reaches another Strap Limit. In this case, the display reads:

Denomination	Sub Batch	Strap Count
\$1		
STRNGR	\$ 100	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

Removing the bills from the stacker resets the Batch to zero and, if a printer is enabled, automatically prints out a Batch report. Reaching a Strap Limit also resets the Batch to zero.

STRANGER DETECT MODE OPERATION

The hopper is empty, and the 70 bills are still in the stacker. The display indicates that the \$1.00 limit of 100 bills has been reached. Upon removal of the bills from the stacker, the display shows:

Denomination	Sub Batch	Strap Count
\$1	\$ 100	\$ 0
STRNGR	\$ 100	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

When the next run begins, the Sub-Batch and Batch totals remain at 100 and accumulate from that count.

Now assume the operator has cleared the machine of currency, and cleared the Batch totals (see page 27 for instructions on how to clear Batch totals).

The operator runs 30 \$1.00 bills. Again, the display reads as follows:

Denomination	Sub Batch	Strap Count
\$1	\$ 30	\$ 30
STRNGR	\$ 30	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

The operator now wants to process \$5.00 notes, which are to be included in the same Batch total. The hopper and transport mechanism are clear of bills. The processed \$1 bills should be removed from the stacker and set aside to await a complete strap quantity.

The operator simply loads the bills into the hopper and the machine begins processing. The LED display will show the following:

Denomination	Sub Batch	Strap Count
\$5	\$ 130	\$ 100
STRNGR	\$ 130	\$ 500

Mode	Batch	Strap Limit
------	-------	-------------

STRANGER DETECT MODE OPERATION

The Strap Count reflects the 20, \$5.00 bills just processed, while the Batch and Sub-Batch counts add the two totals together for \$130.

JetScan retains in memory the Strap total for \$1.00 bills. Consequently, if the operator desires to run \$1.00 bills again, the same procedure is followed, and the display will read:

Denomination	Sub Batch	Strap Count
\$1	\$ 150	\$ 50
STRNGR	\$ 150	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

There are now 50 dollars credited against the \$1.00 limit after the additional 20 bills were processed. The Sub-Batch and Batch totals reflect the addition of 20 dollars.

Assume now that this Sub-Batch is complete and the operator wishes to clear it to prepare for a new Sub-Batch. Pressing the **END SUB** key (Key 6) produces this screen:

Denomination	Sub Batch	Strap Count
\$1	\$ 0	\$ 50
STRNGR	\$ 150	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

A new Sub-Batch of 20 \$1.00 bills is processed. The screen then looks like this:

Denomination	Sub Batch	Strap Count
\$1	\$ 20	\$ 70
STRNGR	\$ 170	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

STRANGER DETECT MODE OPERATION

FACING CURRENCY

It is possible to use JetScan to face currency. This feature makes it possible to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa).

In a JetScan equipped with a single scanning head, facing can be performed in either the STRANGER, STRANGER FACE, or STRANGER ORIENT mode, but bills must always be placed in the hopper green side up. In all modes except COUNT, the machine will stop each time it finds a bill that is faced improperly and the screen will read "NO CALL". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill at the top of the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

With a JetScan equipped with an optional additional scan head, currency can be faced green side up or black side up. To do this, move to the STRFACE (Stranger Face) mode. Make certain that the bottom bill in the stack is faced in the orientation you want all bills faced. JetScan will use the bottom bill as a reference and will stop on all bills faced in the opposite direction.

Place currency in the hopper. The machine will begin processing currency. It will stop each time it finds a bill that is faced improperly and the screen will read "FACING ERROR". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill at the top of the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

ORIENTING CURRENCY

It is possible to use the machine to orient currency (also known as "Heading" currency) if this feature has been activated during set-up, whether the machine has a single read head or is equipped with an optional additional read head. With this feature, it is possible to select bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills, the machine will stop if a bill in any other orientation is found, and vice versa).

To do this, move to the STRORT (Stranger Orient) mode.

Place the currency in the hopper with the bottom bill oriented in the direction you desire. The JetScan will use the bottom bill in the stacker as a reference document, so it should be oriented in the same direction as

STRANGER DETECT MODE OPERATION

you want all bills oriented. The machine will begin to read the currency. Every time the machine stops, and the display reads ORIENTATION ERROR, the bill in the stacker will oriented improperly. If the "Denomination Value" keys have been activated, simply press the one corresponding to the value of the top bill in the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

MIXED MODE OPERATION

SET-UP PROCEDURE

MIXED mode scans bills of all denominations.

Turn JetScan on by pressing the power switch, located at the lower right rear of the machine.

Use the **MODE** key (Key 7) to select MIXED, MIXFCE (MIXED FACE), or MIXORT (MIXED ORIENT).

Upon choosing the MIXED mode with the **ADD** key (Key 8) ON, and Sub-Batch set to ON in set-up the display reads:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$	20
MIXED	\$	150

Mode	Batch	Strap Limit
------	-------	-------------

With the **ADD** key (Key 8) OFF, it reads:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

MIXED	\$	150
-------	----	-----

Mode	Batch	Strap Limit
------	-------	-------------

The counts appearing on the display are "holdover" counts from the previous mode. These numbers will be erased immediately upon beginning to count currency in the current mode.

MIXED OPERATION

If your JetScan is equipped with a single read head, place the bills face down (i.e., green side up) in hopper (any bill that is not green side up will cause a NO CALL and stop the machine). If the unit has an optional second read head, currency may be placed in the hopper in any orientation.

Once currency has been placed in the hopper, JetScan will begin counting while reading each individual bill. The machine will add the face value of all the bills in the stack and provide a total. JetScan will stop automatically within two seconds when all documents have been run.

The machine could also stop if one of the following conditions occurs: JAM, DOUBLE, CHAIN, SUSPECT DOCUMENT, NO CALL, FACING

MIXED MODE OPERATION

**BATCH ACCUMULATION,
ADD FUNCTION "OFF"**

ERROR, or ORIENTATION ERROR. Consult the STOP CONDITIONS section of this manual for instructions on processing these situations.

Assume that \$245 has been processed. The display would read:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

MIXED	\$ 245	
--------------	---------------	--

Mode	Batch	Strap Limit
------	-------	-------------

JetScan has counted \$245 of mixed currency. To review specific denomination totals press the DENOM key repeatedly and scroll through all denominations.

The Batch total is retained when the next bundle of bills is processed if bills are left in the stacker. When additional bills are processed through the JetScan, the Batch total will reset itself each time the stacker has been emptied.

**BATCH AND SUB-BATCH
ACCUMULATION, ADD
FUNCTION "ON"**

If a printer has been enabled, a print report will be generated each time the Batch total clears.

JetScan will accumulate both Batch and Sub-Batch totals when the ADD key (Key 8) is enabled and the SUB-BATCH mode has been turned "ON" during the setup process. Select the MIXED mode and turn the ADD function on. The screen reads:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

	\$ 0	
MIXED	\$ 0	

Mode	Batch	Strap Limit
------	-------	-------------

MIXED MODE OPERATION

To process mixed currency, place the bills in the hopper. The machine begins processing and the display reads:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

	\$	50
MIXED	\$	50

Mode	Batch	Strap Limit
------	-------	-------------

To process another Sub-Batch, currency is removed from the stacker and the **END SUB** key (Key 6) is pressed, which clears the Sub-Batch total and produces this display:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

	\$	0
MIXED	\$	50

Mode	Batch	Strap Limit
------	-------	-------------

A second Sub-Batch consisting of 20, \$1.00 bills is processed. The resulting screen looks like this:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

	\$	20
MIXED	\$	70

Mode	Batch	Strap Limit
------	-------	-------------

FACING CURRENCY

It is possible to use JetScan to face currency. This feature makes it possible to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa).

In a JetScan equipped with a single scanning head, facing can be performed in either the MIXED, MIXFCE, or MIXORT mode, but bills must always be placed in the hopper green side up. In all modes except COUNT, the machine will stop each time it finds a bill that is faced improperly and the screen will read "NO CALL". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key

MIXED MODE OPERATION

corresponding to the value of the bill. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

With a JetScan equipped with an optional additional scan head, currency can be faced green side up or black side up. To do this, move to the MIXFCE (Mix Face) mode. Make certain that the bottom bill in the stack is faced in the orientation you want all bills faced. JetScan will use the bottom bill as a reference and will stop on all bills faced in the opposite direction. Place currency in the hopper. The machine will begin processing currency. It will stop each time it finds a bill that is faced improperly and the screen will read "FACING ERROR". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill at the top of the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

ORIENTING CURRENCY

It is possible to use the machine to orient currency (also known as "Heading" currency) if this feature has been activated during set-up, whether the machine has a single read head or is equipped with an optional additional read head. With this feature, it is possible to select bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills, the machine will stop if a bill in any other orientation is found, and vice versa).

To do this, move to the MIXORT (Mix Orient) mode.

Place the currency in the hopper with the bottom bill oriented in the direction you desire. The JetScan will use the bottom bill in the stacker as a reference document, so it should be oriented in the same direction as you want all bills oriented. The machine will begin to read the currency. Every time the machine stops, and the display reads ORIENTATION ERROR, the bill in the stacker will be oriented improperly. If the "Denomination Value" keys have been activated, simply press the one corresponding to the value of the top bill in the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

SORT MODE OPERATION

SET-UP PROCEDURE

SORT mode scans bills of all denominations. It is best used when bills are sorted by denomination, but grouped or stacked together.

Turn JetScan on by pressing power switch, located at the lower left rear corner of the machine.

Press the **MODE** key (Key 7) to select SORT, SORT FACE, or SORT ORIENT operation. Selecting SORT with the Add function ON, and Sub-Batch enabled in set-up will produce this screen:

Denomination	Sub Batch	Strap Count
\$1	\$ 0	\$ 50
SORT	\$ 150	\$ 100

Mode	Batch	Strap Limit
------	-------	-------------

The counts shown on the display are merely "holdover" counts from the previous mode. These numbers will be erased immediately upon beginning processing in the current mode.

JetScan defaults to the \$1.00 denomination with a Strap Limit of 100 bills. When processing bills in the SORT mode, the operator only has to place the currency stack in the hopper. JetScan reads the first bill through, from the bottom of the stack, and automatically scans for that denomination.

SORT OPERATION

The JetScan will operate in the same manner whether the unit you are using has a single scanning head or an optional second scanning head, except in the FACING mode and in the way bills must be placed in the hopper.

If the JetScan you are using has a single scanning head, it is necessary to place all bills in the hopper green side up. Any bill that is not green side up will cause a NO CALL and stop the machine. If the JetScan is equipped with two scanning heads, the bills can be placed in the hopper in any orientation.

JetScan may also stop if one of the following conditions occurs: JAM, CHAIN, DOUBLE, SUSPECT DOCUMENT, STRAP LIMIT, DENOMINATION CHANGE, FACING ERROR, or ORIENTATION ERROR. Consult the "STOP CONDITIONS" section for instructions on handling these specific conditions.

Place currency in the hopper and JetScan will begin counting while reading each individual bill. The machine will add the face value of all the bills in the stack and provide a total. Each time the denomination passing through

SORT MODE OPERATION

BATCH ACCUMULATION, ADD KEY "OFF"

the machine changes, JetScan will stop and the screen will read DENOMINATION CHANGE. JetScan will stop automatically within two seconds when all documents have been run.

JetScan will accumulate only Batch totals if the Sub-Batch field was not enabled during set-up and if the ADD key (Key 8) is not activated.

Assume that a stack of 150 bills divided into equal groups of \$1.00's, \$5.00's, and \$10.00's is to be processed. As the bills are processed, the machine will stop and show DENOMINATION CHANGE as it encounters each new denomination (this process is discussed in greater detail in the following section). Removing the currency from the stacker will cause JetScan to resume processing until the next stop or until all bills are counted. In this example, when all bills are counted, the screen will read:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$10		
SORT	\$ 150	\$ 1000

Mode	Batch	Strap Limit
------	-------	-------------

When the bills are removed from the stacker, a print report will automatically be generated if a printer is enabled.

The Batch total is retained when the next bundle of bills is processed if bills are left in the stacker. When additional bills are processed through JetScan, the Batch total will reset itself each time the stacker has been emptied.

BATCH AND SUB-BATCH ACCUMULATION, ADD KEY "ON"

As in the previous example, the operator has a stack of 150 bills divided into equal groups of \$1.00's, \$5.00's, and \$10.00's. The bills are stacked in that order. The bills are placed in the hopper and JetScan starts to process the currency, reading the bottom bill in the stack and scanning for that denomination. The machine scans all 50, \$1.00 bills and then reads a \$5.00 bill. JetScan will stop upon reaching the \$5.00 bill and the display will show the following:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

EE	E	EE	E	E
----	---	----	---	---

SORT MODE OPERATION

The operator removes the bills from the stacker. The group of currency will contain 50, \$1.00's, and one \$5.00 bill. The bills should be removed, separated, and placed in a holding area. The count against their respective Strap Limits is \$50.00 in ones and \$5.00 in fives.

After the removal of the currency from the stacker, the machine resumes processing, automatically switching to the \$5.00 denomination. JetScan will continue processing until another denomination change is recognized. This time it is the \$10.00 denomination and the machine will stop with the display showing the following:

Denomination	Sub Batch	Strap Count
\$10	\$ 310	\$ 10
DENOMINATION CHANGE		

Mode	Batch	Strap Limit
------	-------	-------------

The operator removes the bills from the stacker. This group will contain 49 \$5.00 bills and one \$10.00 bill. The operator should separate the \$10.00 bill from the \$5.00's and place the currency in a holding area. The count against their respective Strap Limits is now \$50.00 in ones, \$250.00 in fives and \$10.00 in tens.

After removal of currency, the machine automatically resumes processing, switching to the \$10.00 denomination. JetScan will continue processing until all tens have been run. The display now shows:

Denomination	Sub Batch	Strap Count
\$10	\$ 800	\$ 500
SORT	\$ 800	\$ 1000

Mode	Batch	Strap Limit
------	-------	-------------

The final group of bills to be removed from the stacker will contain 49, \$10.00 bills. The \$10.00 Strap Count is \$500.00, while the Batch and Sub-Batch counts are \$800.00.

SORT MODE OPERATION

Pressing the \$10.00 "Denomination Value" key would produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$10		
\$10	DENOM CHANGE?	

Mode	Batch	Strap Limit
------	-------	-------------

Pressing the \$10 "Denomination Value" key accepts the \$10.00 change. The machine resumes counting once bills are removed from the stacker. If, however, the \$10.00 key was pressed in error, pressing the \$5.00 key would resume counting normally.

FACING CURRENCY

It is possible to use JetScan to face currency. This feature makes it possible to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa).

In a JetScan equipped with a single scanning head, facing can be performed in either the SORT, SRTFCE, or SRTORT mode, but bills must always be placed in the hopper green side up. In all modes except COUNT, the machine will stop each time it finds a bill that is faced improperly and the screen will read "NO CALL". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill at the top of the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

With a JetScan equipped with an optional additional scan head, currency can be faced green side up or black side up. To do this, move to the SRT-FCE (Sort Face) mode. Make certain that the bottom bill in the stack is faced in the orientation you want all bills faced. JetScan will use the bottom bill as a reference and will stop on all bills faced in the opposite direction.

Place currency in the hopper. The machine will begin processing currency. It will stop each time it finds a bill that is faced improperly and the screen will read "FACING ERROR". If the "Denomination Value" keys have been activated, simply place the bill in the correct orientation and press the key corresponding to the value of the bill at the top of the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

SORT MODE OPERATION

ORIENTING CURRENCY

It is possible to use the machine to orient currency (also known as "Heading" currency) if this feature has been activated during set-up, whether the machine has a single read head or is equipped with an optional additional read head. With this feature, it is possible to select bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills, the machine will stop if a bill in any other orientation is found, and vice versa).

To do this, move to the SRTORT (Stranger Orient) mode.

Place the currency in the hopper with the bottom bill oriented in the direction you desire. The JetScan will use the bottom bill in the stacker as a reference document, so it should be oriented in the same direction as you want all bills oriented. The machine will begin to read the currency. Every time the machine stops, and the display reads ORIENTATION ERROR, the bill in the stacker will oriented improperly. If the "Denomination Value" keys have been activated, simply press the one corresponding to the value of the top bill in the stacker. The machine will resume processing with the correct total. If the "Denomination Value" keys are not activated, simply place the top bill from the stacker back in the hopper in the correct orientation and press the CONT key (Key 3).

COUNT MODE OPERATION

If the **ADD** key (Key 8) is not enabled and the **UNIT** key (Key 10) is ON, the screen will read:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

COUNT	0	100
--------------	----------	------------

Mode	Batch	Strap Limit
------	-------	-------------

In the **COUNT** mode, JetScan is intended to count in units and not dollars (though it is possible to count (not scan) dollars if the denomination setting matches the face value being counted and the **UNIT** key is OFF). Therefore the Count total reflects the number of pieces. This is desirable when counting items such as food stamps, coupons, etc. JetScan can only process these media in the **COUNT** mode.

If the **ADD** function has been engaged, JetScan will remember Batch and Strap totals from previously processed denominations.

PROCESSING DOCUMENTS:

Place the documents in hopper. The machine will begin counting. The machine will time out and stop automatically within two seconds when all documents have been run.

JetScan may also stop if one of the following conditions occurs: **JAM**, **DOUBLE**, **CHAIN**, **STRAP LIMIT**, **SUSPECT DOCUMENT**. Consult the "STOP CONDITIONS" section of this manual for instructions on handling these specific situations.

BATCH ACCUMULATION, ADD KEY "OFF"

Use the **MODE** key (Key 7) to scroll to the **COUNT** mode. To count pieces, press the **UNIT** key (Key 10). This screen will appear:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

COUNT	0	100
--------------	----------	------------

Mode	Batch	Strap Limit
------	-------	-------------

COUNT MODE OPERATION

Processing 45 coupons will produce this screen:

Denomination	Sub Batch	Strap Count
COUNT	45	100

Mode Batch Strap Limit

**BATCH AND SUB-BATCH
ACCUMULATION, ADD
KEY "ON"**

Pressing the **ADD** key (Key 8) while the **UNIT** function is active, produces this screen:

Denomination	Sub Batch	Strap Count
COUNT	0	100

Mode Batch Strap Limit

Processing 45 coupons in this mode will produce this screen:

Denomination	Sub Batch	Strap Count
COUNT	45	100

Mode Batch Strap Limit

Assume that the operator wishes to clear the Sub-Batch total in preparation for beginning a new Sub-Batch. Pressing the **END SUB** key (Key 6) produces this screen:

Denomination	Sub Batch	Strap Count
COUNT	0	100

Mode Batch Strap Limit

COUNT MODE OPERATION

If a printer is enabled, a Sub-Batch printout will be generated.

If the operator now processes a new Sub-Batch of 40 coupons, this screen results:

Denomination	Sub Batch	Strap Count
	40	95
COUNT	95	100

Mode	Batch	Strap Limit
------	-------	-------------

**PROCESSING
CURRENCY IN
COUNT MODE**

With the UNIT function turned OFF, JetScan will count in dollars with a multiplier equal to the denomination chosen, e.g., \$1.00—1 to 1, or \$5.00—5 to 1.

To change the multiplier/denomination simply press the DENOM key (Key 13) to scroll through the seven possibilities (\$1.00, \$2.00, \$5.00, \$10.00, \$20.00, \$50.00, \$100.00).

For example, the screen for processing \$5.00 bills looks like this.

Denomination	Sub Batch	Strap Count
\$5	\$ 0	\$ 0
COUNT	\$ 0	\$ 500

Mode	Batch	Strap Limit
------	-------	-------------

When counting currency, individual Strap Limits may be set for each different denomination.

To return to counting "slips of paper" press the UNIT key (Key 10) again.

OFFSORT MODE OPERATION

SET-UP PROCEDURE

OFFSORT mode scans bills of all denominations and stops on a selected denomination.

Turn JetScan on by pressing power switch, located at the lower left rear corner of the machine.

Press the **MODE** key (Key 7) to select OFFSORT operation. Selecting OFFSORT with the Add function ON, and Sub-Batch enabled in set-up will produce this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$	0
OFFSRT	\$	150

Mode	Batch	Strap Limit
------	-------	-------------

The counts shown on the display are merely "holdover" counts from the previous mode. These numbers will be erased immediately upon beginning processing in the current mode.

JetScan defaults to the \$1.00 denomination. When processing bills in the OFFSORT mode, the operator only has to place the currency stack in the hopper. JetScan scans all denominations, but stops for the selected denomination.

OFFSORT OPERATION

The JetScan will operate in the same manner whether the unit you are using has a single scanning head or an optional second scanning head, except in the way bills must be placed in the hopper.

If the JetScan you are using has a single scanning head, it is necessary to place all bills in the hopper green side up. Any bill that is not green side up will cause a NO CALL and stop the machine. If the JetScan is equipped with two scanning heads, the bills can be placed in the hopper in any orientation.

JetScan may also stop if one of the following conditions occurs: JAM, CHAIN, DOUBLE, SUSPECT DOCUMENT, STRAP LIMIT, or DENOMINATION CHANGE. Consult the "STOP CONDITIONS" section for instructions on handling these specific conditions.

OFFSORT MODE OPERATION

Place currency in the hopper and JetScan will begin counting while reading each individual bill. The machine will add the face value of all the bills in the stack and provide a total, as well as totals for individual denominations (which can be viewed by scrolling with the **DENOM** key (Key 13)). Each time the denomination passing through the machine changes to or from the selected denomination JetScan will stop and the screen will read "DENOMINATION CHANGE". JetScan will stop automatically within two seconds when all documents have been run.

BATCH ACCUMULATION, ADD KEY "OFF"

JetScan will accumulate only Batch totals if the Sub-Batch field was not enabled during set-up and if the **ADD** key (Key 8) is not activated.

Assume that a stack of 160 bills divided into equal groups of \$1.00's, \$5.00's, \$10.00's, and \$1.00's is to be processed and \$1 is selected to offsort. As the bills are processed, the machine will stop and show DENOMINATION CHANGE as it encounters a denomination other than the selected OFFSORT denomination or when it reencounters the selected denomination (this process is discussed in greater detail in the following section). Removing the currency from the stacker will cause JetScan to resume processing until the next stop or until all bills are counted. In this example, when all bills are counted, the screen will read:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">\$1</td> <td style="width: 30%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td>OFFSRT</td> <td style="text-align: center;">\$</td> <td style="text-align: right;">150</td> </tr> </table>	\$1			OFFSRT	\$	150
\$1						
OFFSRT	\$	150				

Mode	Batch	Strap Limit
------	-------	-------------

When the bills are removed from the stacker, a print report will automatically be generated if a printer is enabled.

The Batch total is retained when the next bundle of bills is processed if bills are left in the stacker. When additional bills are processed through JetScan, the Batch total will reset itself each time the stacker has been emptied.

OFFSORT MODE OPERATION

BATCH AND SUB-BATCH ACCUMULATION, ADD KEY "ON"

As in the previous example, the operator has a stack of 160 bills divided into equal groups of \$1.00's, \$5.00's, \$10.00's and \$1.00's. The bills are stacked in that order. \$1 is selected as the OFFSORT denomination. The bills are placed in the hopper and JetScan starts to process the currency, scanning for that denomination. The machine scans all 40, \$1.00 bills and then reads a \$5.00 bill. JetScan will stop upon reaching the \$5.00 bill and the display will show the following:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$	40
DENOMINATION CHANGE		

Mode	Batch	Strap Limit
------	-------	-------------

The operator removes the bills from the stacker. The group of currency will contain 40, \$1.00's, and one \$5.00 bill. The bills should be removed, separated, and placed in a holding area.

After the removal of the currency from the stacker, the machine resumes processing. JetScan will continue processing until the selected denomination is reencountered. When the machine recognizes the \$1 bill again, JetScan will stop with the display showing the following:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$	640
DENOMINATION CHANGE		

Mode	Batch	Strap Limit
------	-------	-------------

The operator removes the bills from the stacker. This group will contain 39 \$5.00 bills, 10 \$10.00 bills and one \$1 bill. The operator should separate the \$1 bill, the \$5.00's and the \$10.00's and place the currency in a holding area.

OFFSORT MODE OPERATION

After removal of currency, the machine automatically resumes processing, JetScan will continue processing until all one's have been run. The display now shows:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$ 680	
OFFSRT	\$ 680	

Mode	Batch	Strap Limit
------	-------	-------------

The final group of bills to be removed from the stacker will contain 39, \$1.00 bills. The Batch and Sub-Batch counts are \$680.00.

Assume that the operator wishes to clear the Sub-Batch total in preparation for beginning a new Sub-Batch. Pressing the END SUB key (Key 6) produces this screen:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$ 0	
OFFSRT	\$ 680	

Mode	Batch	Strap Limit
------	-------	-------------

If a printer is enabled, a Sub-Batch printout will be generated.

If the operator now processes a new Sub-Batch of 40, \$1.00 bills this screen results:

Denomination	Sub Batch	Strap Count
--------------	-----------	-------------

\$1	\$ 40	
OFFSRT	\$ 720	

Mode	Batch	Strap Limit
------	-------	-------------

HANDLING NO CALLS

When NO CALL or SUSPECT DOCUMENT conditions occur, the "Denomination Value" keys can be used to restart JetScan. Simply pressing the "Denomination Value" key that corresponds to the top bill in the stacker adds the amount to the Batch, and Sub-Batch totals and restarts the machine.

OFFSORT MODE OPERATION

If you press a "Denomination Value" key other than the selected OFFSORT denomination currently being processed, however, JetScan treats it like a stranger.

So, for example, if 30 \$1 bills has passed through the machine and a NO CALL occurred, the screen would read:

Denomination	Sub Batch	Strap Count
\$1	\$ 30	
NO CALL		

Mode	Batch	Strap Limit
------	-------	-------------

Pressing the \$10.00 "Denomination Value" key would produce this screen:

Denomination	Sub Batch	Strap Count
\$1	\$ 30	
\$10	STRANGER?	

Mode	Batch	Strap Limit
------	-------	-------------

Pressing the \$10 "Denomination Value" key accepts the \$10.00 stranger. The machine resumes counting once bills are removed from the stacker. If, however, the \$10.00 key was pressed in error, pressing the \$1.00 key would resume counting normally.

GLOSSARY

AUTO DENOMINATION	In STRANGER Mode, machine will read the first bill through from the hopper and then every different denomination found becomes the "stranger" and the machine stops.
BATCH	Documents processed as an overall group. Documents will be recorded as coming from one general source.
CHAINS	A condition that occurs when two or more documents run through the JetScan reading mechanism without proper spacing. (For information about clearing chains, see page 25.)
CLEAR	To reset accumulated totals for Batches, Sub-Batches, Day totals and Straps to zero. Accomplished by pressing CLEAR key, then press the key corresponding to the total to be cleared.
COUNT MODE	Counts any currency, food stamps, coupons, etc., that fit the hopper size. Operates like any other currency counter in that it is only counting "slips of paper" (no currency scanning takes place).
DAY TOTAL	The grand total of currency processed since the last time Day total was cleared.
DEFAULT	Conditions of operation that are either established during the setup process (which remain unchanged until reset) or have been incorporated into JetScan during manufacture (to which the machine returns each time it is turned "OFF", then "ON"). For more on default settings, see page 13.
DISPLAY	Vacuum Fluorescent Display (VFD) screen on the front of the machine that reports operating status.
DOUBLES	A condition that occurs when two documents pass through the JetScan reading mechanism simultaneously, stacked one on top of the other. The machine will stop when this condition occurs. (For information about how to clear the machine after a doubles condition, see page 25).
FACING CURRENCY	It is possible to use JetScan to face currency if this feature has been activated during set-up. This feature makes it possible to select bills that are not "matching-side-up" (i.e., in a stack that is green-side-up, the machine will stop if a black-side-up bill is encountered, and vice versa).
HOPPER	The area on top of JetScan where documents to be processed are placed.
MIXED MODE	A mode of operation in which bills of all denominations are scanned, regardless of the mixture of bills.

GENERAL OPERATING PROCEDURES

NO CALL	The machine cannot identify a bill's denomination. Recovering from a No Call condition is described in detail on page 23.
OFFSORT MODE	Scans bills of all denominations and stops on a selected denomination.
ORIENTING CURRENCY	With this feature, it is possible to select bills that are not "correct-edge-facing-top" (i.e., in a stack that is oriented so the words "THE UNITED STATES OF AMERICA" are at the top edge of the bills, the machine will stop if a bill in any other orientation is found, and vice versa).
SET-UP FIELDS	There are fourteen pre-operating conditions that can be assigned or controlled by the operator (discussed in detail on pages 13-18). Once they are set, they remain set (even if the machine is turned off) unless reset by re-entering the setup process.
SORT MODE	Scans bills of all denominations. Best used when bills are in a presorted stack, i.e., denominations are sorted, but stacked together.
STACKER	The area at the bottom front of JetScan where processed documents are delivered.
STRANGER DETECT	A mode of operation in which JetScan scans bills for a selected denomination and stops when any other denomination is found.
STRANGER RECORD	In STRANGER Mode, machine will record all the "stranger" bills encountered in the Batch total, and track them against their respective Strap Counts.
STRAP	Quantity of documents to be prepared for banding.
SUB-BATCH	Documents processed from one of several sources as part of a Batch. Allows for more detailed tracking of proceeds within a Batch.
SUSPECT DOCUMENT SENSITIVITY	JetScan allows the setting of different sensitivity levels of UV, FL, and MAG per denomination for the detection of suspect documents. The lower the sensitivity, the greater the opportunity to pass a counterfeit bill. The higher the sensitivity, the greater the opportunity to stop on a good (non-counterfeit) bill.
FACTORY MODE	A special set of pre-programmed defaults for JetScan's set-up fields. For more information on specific Factory Mode defaults, see pages 13-16.