

JetCount[®]

Currency Counter

Operating Instructions for All Models



Power Specifications

⚠ WARNING

High voltage inside. Risk of electric shock.

Turn power **OFF** and unplug power cord from machine before cleaning.

Do not attempt repairs. Repairs must be made by authorized Cummins-Allison Corp. personnel.

Plug three-prong grounded plug (supplied) into properly grounded three-prong outlet.

Read and understand all instructions before use.

Power Requirements

- **Voltage operating range:** 105-130 VAC or 198-253 VAC, manual switching
- **Frequency:** 50/60 Hz
- **Electrical supply circuit:** The customer must provide a single-phase, dedicated power line that meets the machine's power rating(s). Use a properly grounded circuit breaker in compliance with applicable local electrical code.

Power Rating(s)

NOTICE

Improper voltage levels can cause equipment malfunction, damage electrical components, and void warranty.

Provide separate circuit serving only this device to ensure proper operation.

Follow listed power requirements to ensure proper operation.

Provide power conditioning/stabilizing devices if necessary.

- **Full load amps (FLA):** .6A/.3A

Power disruptions and fluctuations causing input voltage other than listed in power requirements can lead to improper operation of this device, damage to electrical components, and failure. Such occurrences are not covered under the machine warranty or preventative maintenance agreement for this device. Power conditioning/stabilizing devices are available for purchase from Cummins-Allison Corp.

Statement of Agency Compliance

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Class A Compliance Statement

NOTICE

Radio frequency present.

Install and operate per manuals to avoid radio interference.

Unapproved changes to machine may void user's right to operate.

Do not modify without express permission from Cummins-Allison Corp.

Attach only shielded cables with shield wires grounded (tied) to connector shell.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Any changes or modifications made to this device that are not expressly approved by Cummins-Allison Corp. may void the user's authority to operate the equipment.

To maintain compliance with FCC rules and regulations, cables connected to this device must be shielded cables in which the cable shield wires are grounded (tied) to the connector shell.

Safety Compliance



US LISTED U.L. 60950, Third Edition and CAN/CSA – C22.2 No. 950-95

- **U.L. file number:** E135004 NWGQ Information Technology Equipment Including Electrical Business Equipment



The CE mark on the product indicates that the system has been tested to and conforms to the provisions noted within the 2004/108/EC (EMC) and 2006/95/EC (LVD) directives.

EN 60950-1 European Norm, Safety of Information Technology Equipment Including Electrical Business Equipment

Table of Contents

POWER SPECIFICATIONS	INSIDE FRONT COVER
STATEMENT OF AGENCY COMPLIANCE.....	1
FCC CLASS A COMPLIANCE STATEMENT	1
SAFETY COMPLIANCE.....	1
GETTING TO KNOW YOUR JETCOUNT® CURRENCY COUNTER.....	4
THE JETCOUNT CURRENCY COUNTER	5
MODEL 4020 CONTROL PANEL	5
<i>Key Explanation</i>	5
MODEL 4021, 4022 CONTROL PANEL.....	6
<i>Key Explanation</i>	6
ALL MODELS: KEY NUMBERS	7
ALL MODELS: KEY-TOP KIT OPTION	7
<i>Key Explanation</i>	8
THE BASICS	9
POWER.....	9
HOPPER	9
DENSITY OPERATION	9
SETTING SD DETECTION	10
THICKNESS ADJUSTMENT DIAL.....	11
OPERATING MODES	11
<i>Choosing a Mode of Operation</i>	11
MEMORY LEVELS	12
SETTING STRAP LIMITS.....	12
PRINTED REPORTS.....	13
<i>Setup Report.....</i>	13
HOW TO USE COUNT MODE.....	16
PROCESSING DOCUMENTS.....	16
DIRECT ACCESS STRAPPING.....	17
BATCH ACCUMULATION, ADD KEY OFF	17
BATCH ACCUMULATION, ADD KEY ON	18
HOW TO USE VALUE MODE	20
PROCESSING DOCUMENTS.....	20
BATCH ACCUMULATION, ADD KEY OFF	21
BATCH ACCUMULATION, ADD KEY ON	22
SPECIAL MODE MENU	24
ENTERING THE SPECIAL MODES MENU.....	24
SETUP FIELDS.....	25
<i>Default Type.....</i>	27
<i>Audio Alarm Status.....</i>	28
<i>Speed.....</i>	28
<i>Port 1 Status and Port 2 Status.....</i>	28
<i>Key Lockout.....</i>	28
<i>Comm Report.....</i>	29
<i>Options</i>	29
<i>SD Function Control.....</i>	29
<i>Function Key Setting.....</i>	30

<i>Printer Type</i>	30
<i>Setup Report</i>	30
<i>Remote Display Count</i>	31
REFERENCE	32
DAILY CLEANING PROCEDURES.....	32
<i>Recommended Cleaning Materials</i>	32
<i>Daily Cleaning</i>	32
STOPPING CONDITIONS AND RECOVERY STEPS.....	36
MACHINE SPECIFICATIONS.....	38
MACHINE OPTIONS.....	38
GLOSSARY	39
<i>Safety Messages and Advisories</i>	39
<i>Terms</i>	39
WARRANTY INFORMATION	41
EQUIPMENT WARRANTY	41
SOFTWARE WARRANTY	41
DISCLAIMER AND LIMITATION OF LIABILITY	42

Getting to Know Your JetCount® Currency Counter

Thank You

Thank you for selecting the JetCount® currency counter from Cummins Allison.

For Your Records

Please fill in the following information for easy reference.

Model No.	
Serial No.	
Your Local Cummins Allison Office	Address:
	Phone:

JetCount® Features

This manual covers all of the available features and functions for the JetCount currency counter. However, your particular unit may or may not be equipped with every option.

(To learn more, see [Machine Specifications and Options.](#))

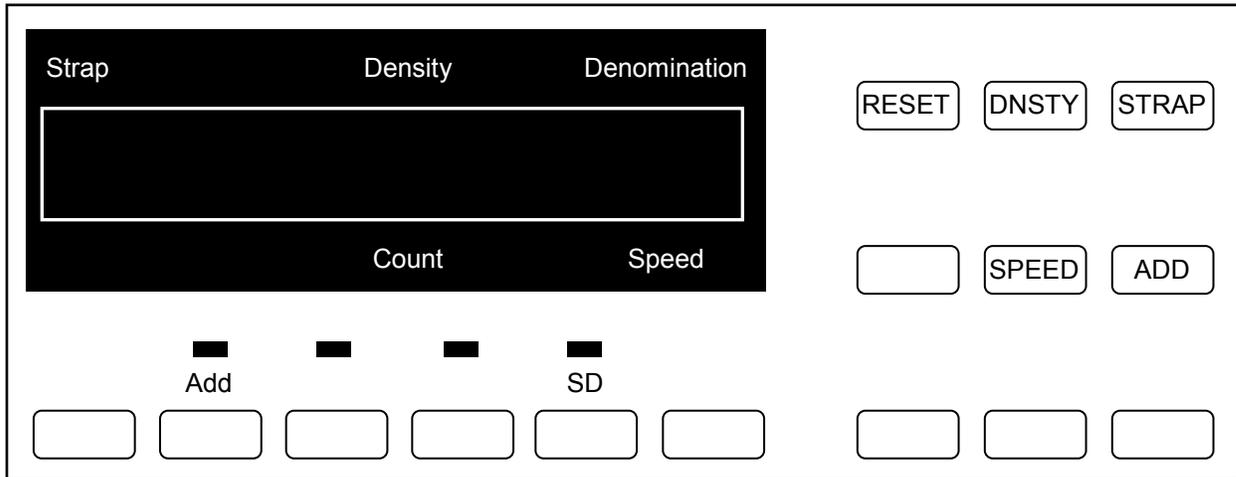
Recommended Maintenance

(To learn more, see [Daily Cleaning Procedures.](#))

The JetCount® Currency Counter

This manual is designed to provide the new user with a detailed description of the various features and modes of operation for the JetCount currency counter models 4020, 4021 and 4022.

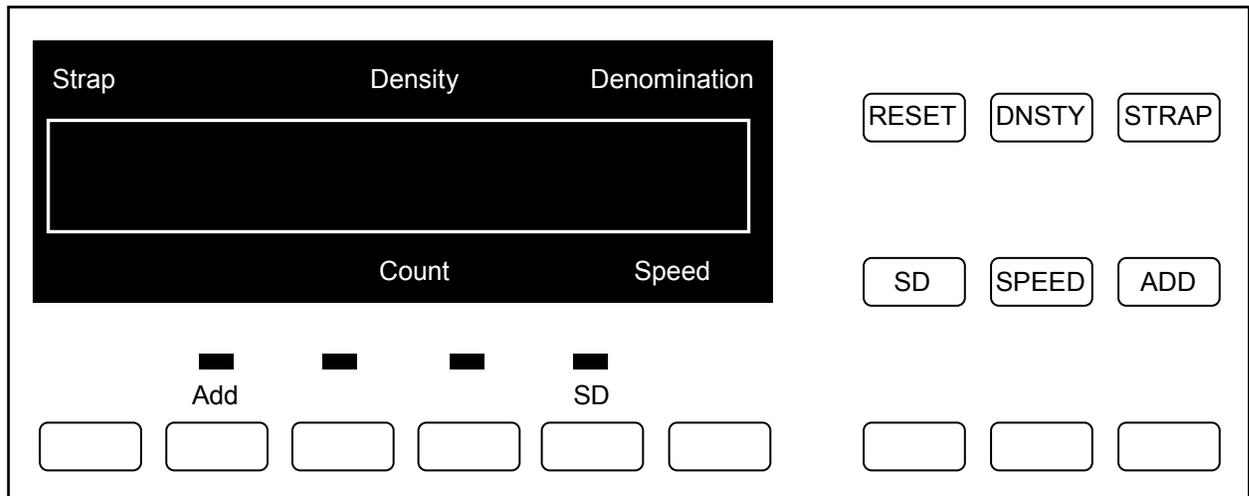
Model 4020 Control Panel



Key Explanation

Key	Description
RESET	This key is used when clearing counts and to restart the machine after a stopping condition.
DENSITY	This key is used for setting doubles detection sensitivity by denomination.
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.)
SPEED	This key is used to set speed at * (low), ** (medium) or *** (high).
ADD	This key is used for accumulating a total even after notes have been removed from the stacker. When disabled, totals clear each time the stacker is emptied.

Model 4021, 4022 Control Panel

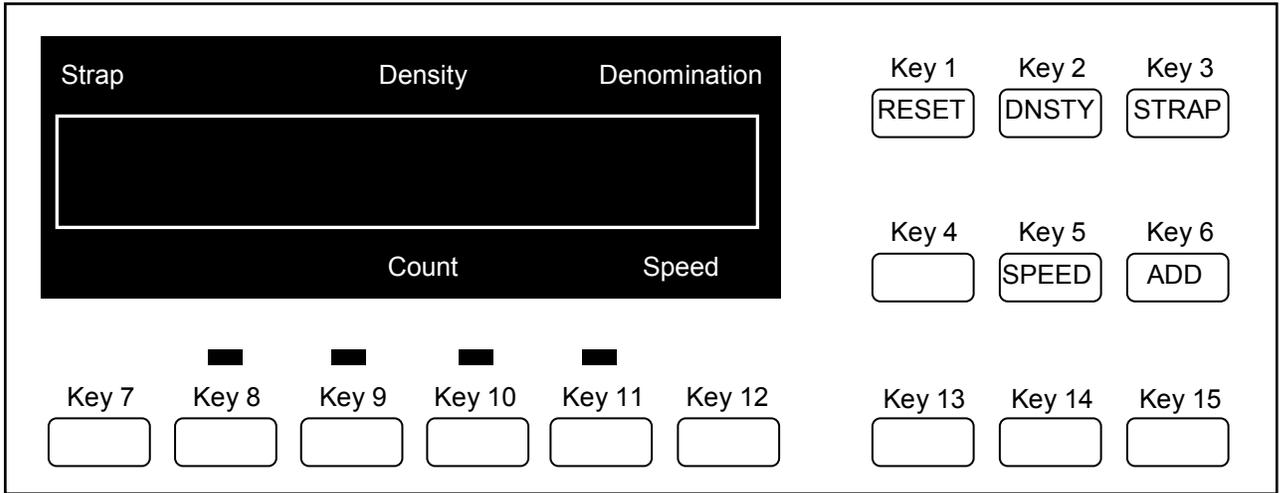


Key Explanation

Key	Description
RESET	This key is used when clearing counts and to restart the machine after a stopping condition.
DENSITY	This key is used for setting doubles detection sensitivity by denomination.
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.)
SD	This key is used to activate suspect document detection and set sensitivity by denomination.
SPEED	This key is used to set speed at * (low), ** (medium) or *** (high).
ADD	This key is used for accumulating a total even after notes have been removed from the stacker. When disabled, totals clear each time the stacker is emptied.

All Models: Key Numbers

Instructions shown on the display refer to “key” numbers. Key positions are as follows:



All Models: Key-Top Kit Option

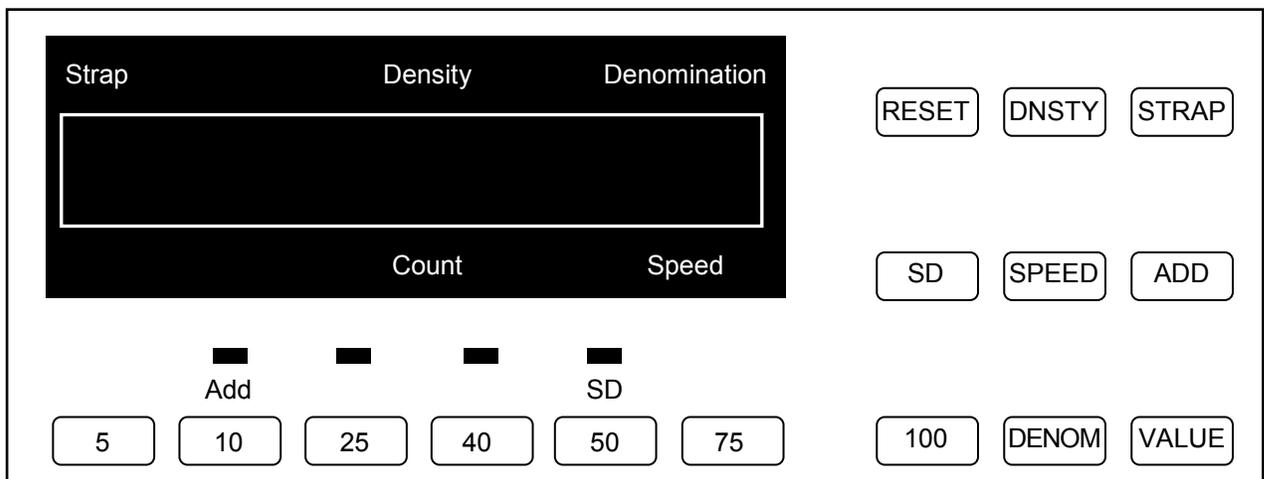
All JetCount models may be upgraded with an optional key-top kit that includes:

- **VALUE keys.**
- **DENOM keys.**
- **Direct Access Strapping keys***. These keys are used for setting a Strap Limit at any preset value from five to 100 in increments of five.
- **Direct Access Denomination keys***. These preset denomination keys (\$1, \$2, \$5, \$10, \$20, \$50, \$100) are used as a multiplier when JetCount is in VALUE mode.

** Strapping and denomination keys are mutually exclusive and cannot be simultaneously engaged.*

To order the key-top kit, **contact a Cummins Allison representative.**

Direct Access Strapping Keys (One Sample Configuration Shown)



Direct Access Denomination Keys

Strap		Density		Denomination		RESET	DNSTY	STRAP
[Empty Display Area]						SD	SPEED	ADD
		Count		Speed				
■ Add		■		■		■ SD		
\$1	\$5	\$10	\$20	\$50	\$100	\$2	DENOM	VALUE

Key Explanation

Key	Description
RESET	This key is used when clearing counts and restarts the machine after a stopping condition.
DENSITY	This key is used for setting doubles detection sensitivity by denomination.
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.)
SD	For models equipped with Magnetic SD (JetCount model 4021) or Magnetic and UV/FL SD (JetCount model 4022), this key is used to activate suspect document detection and set sensitivity by denomination.
SPEED	This key is used to set speed at * (low), ** (medium) or *** (high).
ADD	This key is used for accumulating a total even after notes have been removed from the stacker. When disabled, totals clear each time the stacker is emptied.
DENOM	This key is used to select the denomination that will be used to count currency.
VALUE	This key is used to toggle between count and note values.

The Basics

Power



WARNING

High voltage inside. Risk of electric shock.

Turn power **OFF** and unplug power cord from machine before cleaning. Do not attempt repairs. Repairs must be made by authorized Cummins-Allison Corp. personnel.

Plug three-prong grounded plug (supplied) into properly grounded three-prong outlet.

Read and understand all instructions before use.

To turn JetCount **ON**, press the switch located in the lower right rear corner when facing the front of the machine. JetCount defaults to the mode and settings when last turned **OFF**.

Hopper



CAUTION

Machine is auto-start capable. Feed rollers in hopper rotate inward. Entanglement and drawing-in hazard.

Do not operate with exposed long hair, neckties, jewelry or loose clothing.

The hopper is the area on top of the JetCount where documents are placed for processing.

Density Operation

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

To adjust density for currency, the machine must be in a “normal time-out” status. The current density setting is the value the machine was set at the last time it was used. Press **DNSTY**. The indicator in the middle of the top line of the display (under Density) will move through four density settings: *, **, *** and **OFF**.

If JetCount is detecting doubles frequently, scroll to a lower (less sensitive) setting by pressing **DNSTY**.

If JetCount 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 save changes to density settings in normal operating mode, run the motor (by pressing **RESET** or running notes) after changes are made and prior to turning the machine **OFF**.

To adjust the sensitivity for food stamps when in COUNT mode, follow the same procedure used to set up for currency.

Setting SD Detection

If your JetCount is equipped to detect counterfeit currency (models 4021 and 4022) Suspect Document Detection is enabled by pressing **SD**. Be sure **SD** is set to **ON** in the Key Lockout Setup Field. The red LED illuminates to indicate that the Magnetics (on model 4021) and/or UV/Fluorescence Suspect Document feature (Magnetic and UV/FL available on model 4022) is enabled.



To save changes to **SD** settings in normal operating mode, run the motor (by pressing **RESET** or running notes) after changes are made and prior to turning the machine **OFF**.

While the appropriate counterfeit detection settings may vary, the following setting is recommended for initial processing in COUNT mode:

	SD Sensitivity
UV	3
FLUOR	7
MAG	6

In VALUE mode, the MED setting is recommended with the following sensitivity levels for initial processing:

	\$1	\$2	\$5	\$10	\$20	\$50	\$100
UV	1	1	2	3	3	4	5
FLUOR	5	5	6	6	6	8	8
MAG	4	5	3	5	5	5	5

To exit the *Suspect Document* screen, press **KEY 3**.

JetCount allows the setting of four different sensitivity levels. To make this adjustment, press **SD**. The display will show:

Strap	Density	Denomination
SUSPECT DOCUMENT		
HI		
	Count	Speed

To alter the sensitivity level, press **SD** and scroll to the desired level.

To set individual sensitivity levels for UV, Fluorescence and Magnetics, press and hold down **SD** for 2-3 seconds. Press **KEY 4** to set sensitivity settings to **LOW**, **MED** or **HI** for **COUNT** mode. In **VALUE** mode, each denomination (\$1-\$100) may be set independently to **LOW**, **MED** or **HI**. The **SPEED key (KEY 5)** is used to make a sub-selection and move the arrow prompt. **KEY 6** is used to set the option. In **VALUE** mode for each level (**LOW**, **MED** or **HI**) of each denomination, the user has the option to set sensitivity from **1-10** or **OFF**.



The lower the sensitivity level, the greater the opportunity to pass a counterfeit note. The higher the sensitivity level, the greater the opportunity to stop on a good (non-counterfeit) note.

The appropriate level of sensitivity will depend on the condition of the currency and the counterfeit note frequency.

Thickness Adjustment Dial

This gray dial is located on top of the JetCount. The dial adjusts the tightness of the feeder in which the notes pass through during JetCount operation. To make adjustments, turn the dial to the right or left. If the machine is experiencing consistent chains or doubles, adjust the dial to allow notes to pass through the JetCount without error.



By turning the thickness adjustment dial to the right, the rollers are made tighter. By turning the thickness adjustment dial to the left, the rollers are made looser, thereby allowing notes to flow through the JetCount easier.

Operating Modes

JetCount provides two basic operating modes for processing documents: **COUNT PROCESSING (COUNT)** and **CURRENCY PROCESSING (VALUE)**. Processing speed is programmable for 600-1,600 documents per minute in both modes.

Mode	Description
COUNT PROCESSING (COUNT)	Counts any currency, food stamps, coupons, etc., that fit the hopper and paper size specifications. In this mode, JetCount is only counting “slips of paper” (no currency scanning is taking place).
CURRENCY PROCESSING (VALUE)	When in the VALUE mode, the DENOM key or Direct Access Denomination keys permit setting the JetCount so that each note passing through the machine is counted as if it were a specific value of currency. JetCount may be set to count each note as \$1, \$2, \$5, \$10 \$20, \$50 or \$100.

Choosing a Mode of Operation

The machine is shipped with **COUNT** mode enabled. If the machine is equipped with **VALUE** mode and **Direct Access** keys, press **VALUE (KEY 15)** to toggle between **COUNT** (Count Processing) or **VALUE** (Currency Processing). In **VALUE** mode, you must select the value of the denomination you are processing through the machine. JetCount will apply this value

multiplier to each note counted. You may use the **VALUE key** to toggle to the desired denomination, or press the **Direct Access Denomination key**. The display will indicate the denomination selected.

Memory Levels

JetCount has two memory levels:

Memory Level	Description
STRAP	Strap Limits can be set at any number between 1-100 and infinity. JetCount stops when reaching the Strap Limit.
BATCH	Batch tracks all documents processed when the ADD key is activated, until cleared.

Setting Strap Limits

JetCount allows you to set individual Strap Limits. For machines with **Direct Access Strapping keys**, pre-set Strap Limit Values are set for each key in Setup. Straps may be set for any piece count between 1 and 100. There are eight preset strap levels: 5, 10, 20, 25, 50, 75, 100 and infinity. Repeatedly pressing **STRAP** allows you to select among the eight values. The following screen shows the strap set to “50” in COUNT mode.

Strap	Density	Denomination
50	* *	COUNT
	0	* *
	Count	Speed

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

Printed Reports

Port 1 or 2 on the back of the JetCount (find the connectors in the lower right 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.

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. When the **ADD** function is enabled, print reports are sent to the printer once totals are cleared.

Each report generated by JetCount features a number immediately below the name of the report. The first five digits in this number indicate the sequence 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.

BATCH REPORT			
00001-0001-000			
DENOM	UNIT		VALUE
\$1	60	\$	60
\$5	29	\$	145
\$10	8	\$	80
BATCH	97	\$	285
TOTAL			

Setup Report

The Setup Report is only generated in Setup Fields, when Port 1 or Port 2 is set to PRINTER. In Setup, the following screen appears:

Strap	Density	Denomination
11) SETUP REPORT press KEY 3 to print		
	Count	Speed

Press **KEY 3** to generate the following report:

JETCOUNT SETUP

DATE _____
 Serial Number: 123456
 CORE:020-4020-24R01
 020-4020-25R01

DEFAULT TYPE FACTORY

AUDIO ALARM STATUS

SUSP DOC	OFF
STRP LIM	OFF
CHAIN	ON
DOUBLE	ON
JAM	ON
HLF NOTE	ON

SPEED SETUP

LOW	600
MEDIUM	1200
HIGH	1600

PORT 1 STATUS

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

PORT 2 STATUS

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

KEY LOCKOUT

VALUE	OFF
SPEED	ON
DENSITY	ON
STRAP	ON
ADD	ON
SD	OFF
UV	OFF
MAG	OFF
DENOM	OFF
KEY7	OFF
KEY8	OFF
KEY9	OFF
KEY10	OFF
KEY11	OFF
KEY12	OFF
KEY13	OFF

COMM REPORT NORMAL

OPTIONS

MAG	ON
UV	ON

SD FUNCTION CONTROL

FUNCTION	KEY	ON SETTING
STRAP	KEY7	5
STRAP	KEY8	10
STRAP	KEY9	20
STRAP	KEY10	25
STRAP	KEY11	50
STRAP	KEY12	75
STRAP	KEY13	100
DENOM	KEY7	\$1
DENOM	KEY8	\$5
DENOM	KEY9	\$10
DENOM	KEY10	\$20
DENOM	KEY11	\$50
DENOM	KEY12	\$100
DENOM	KEY13	\$2

CURRENT FUNCTION STRAP

DENSITY	MED
---------	-----

DENSITY SETTINGS

DENOM	SENS
\$1	MED
\$2	MED
\$5	MED
\$10	MED
\$20	MED
\$50	MED
\$100	MED

STRAP	100
-------	-----

SUSPECT DOCUMENT

\$1	MED
\$2	MED
\$5	MED
\$10	MED
\$20	MED
\$50	MED
\$100	MED
COUNT	MED

SUSPECT DOCUMENT SELECTION MENU

DENOM	SENS	UV	FLUOR	MAG
\$1	LOW	1	4	3
\$1	MED	1	5	4
\$1	HI	2	6	5
\$2	LOW	1	4	4
\$2	MED	1	5	5
\$2	HI	2	6	6
\$5	LOW	1	5	4
\$5	MED	2	6	5
\$5	HI	3	7	6
\$10	LOW	2	5	4
\$10	MED	3	6	5
\$10	HI	4	7	6
\$20	LOW	2	5	4
\$20	MED	3	6	5
\$20	HI	4	7	6
\$50	LOW	3	7	4
\$50	MED	4	8	5
\$50	HI	5	8	6
\$100	LOW	4	7	4
\$100	MED	5	8	5
\$100	HI	6	8	6
COUNT	LOW	2	5	4
COUNT	MED	3	7	6
COUNT	HI	5	8	8

SPEED HIGH
 ADD OFF
 VALUE COUNT
 DENOMINATION \$1

How to Use Count Mode

Count mode counts any currency, food stamps, etc., that fit the hopper size. In this mode, JetCount is only counting “slips of paper” (no currency scanning is taking place). Therefore, the COUNT total reflects the number of pieces.

When the **ADD** function is **ON**, JetCount will accumulate totals until **RESET** is pressed to clear count totals. When the **ADD** function is **OFF**, the machine will clear totals each time the stacker is emptied.

CAUTION

Machine is auto-start capable. Feed rollers in hopper rotate inward.
Entanglement and drawing-in hazard.
Do not operate with exposed long hair, neckties, jewelry or loose clothing.

Processing Documents

By default the display shows:

Strap	Density	Denomination
100	* *	COUNT
	0	* *
	Count	Speed

Make sure that all notes are stacked neatly. Place the new stack of notes in the hopper. The machine will begin counting.

JetCount may stop if one of the following conditions occurs: JAM, CHAIN, DOUBLE, SUSPECT DOCUMENT and STRAP LIMIT. (See [Stopping Conditions and Recovery Steps](#) for instructions on clearing the condition indicated on the screen.)

JetCount will time out and stop automatically within two seconds when all documents have been run.

Direct Access Strapping

The optional **Direct Access Strapping keys** give the operator direct access to preset strap limits. Without this option, straps may be set by pressing **STRAP** and scrolling to a preset value or holding down **STRAP** for other values. Pressing a **Strap key** of **50** would produce this screen:

Strap	Density	Denomination
50	* *	COUNT
	0	* *
	Count	Speed

Batch Accumulation, ADD Key OFF

When processing documents with the **ADD** function **OFF**, the machine will clear the current count total and generate a print report (if a printer is connected) each time the stacker is emptied.

Operating in **COUNT** mode with the **ADD key OFF** produces this screen when 45 coupons are processed:

Strap	Density	Denomination
100	* *	COUNT
	45	* *
	Count	Speed

The number below the Strap label is the current Strap Limit. If the notes are left in the stacker, then the next run will be added to the Count. If the notes are removed from the stacker, then the next run will restart from zero

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

Strap	Density	Denomination
STRAP LIMIT		
100 PIECES		
	Count	Speed

Once notes are removed from the stacker, the machine automatically resumes counting until it either counts all the notes in the hopper or reaches another Strap Limit.

In this case, the display reads:

Strap	Density	Denomination
100	* *	COUNT
	100	* *
	Count	Speed

Removing notes from the stacker resets the Batch count to zero and, if a printer is enabled, a Batch Report automatically prints. Reaching a Strap Limit also resets the Batch count to zero. Batch counts may be manually reset to zero by pressing **RESET**.

Batch Accumulation, ADD Key ON

With the **ADD** function **ON**, JetCount will accumulate totals until **RESET** is pressed. Press the **ADD** key, and the indicator light above the ADD label will light. Operating in COUNT mode with the **ADD key ON** produces this screen when 45 coupons are processed.

Strap	Density	Denomination
100	* *	COUNT
	45	* *
	Count	Speed

The number below the Strap label is the current Strap Limit. The coupons may be left in the stacker or removed. The Batch count will remain. Another 55 coupons are run. The machine will “time out” showing a strap limit has been reached:

Strap	Density	Denomination
STRAP LIMIT		
100 PIECES		
	Count	Speed

The hopper is empty and the machine is in a normal “time-out” condition. When the next Batch is run, the Batch count will remain at 100 and accumulate from that count.

Continuing this example, the operator now runs 70 more coupons. The display reads as follows:

Strap	Density	Denomination
100	* *	COUNT
	170	* *
	Count	Speed

Clearing totals when JetCount is in **ADD** mode is accomplished by pressing **RESET** and, if a printer is connected, a report automatically prints.

How to Use Value Mode

JetCount can be used to process any document or note that fits in the hopper. It can also be used to process U.S. currency if the machine is equipped with VALUE mode. Because JetCount does not “read” the note’s value, it is necessary to preset JetCount before processing currency.

When the **ADD** function is **ON**, JetCount will accumulate totals for individual denominations until **RESET** is pressed. When the **ADD** function is **OFF**, the machine will clear all totals each time the stacker is emptied.

CAUTION Machine is auto-start capable. Feed rollers in hopper rotate inward. Entanglement and drawing-in hazard.
Do not operate with exposed long hair, neckties, jewelry or loose clothing.

Processing Documents

Press **VALUE** to select CURRENCY PROCESSING (VALUE) mode. Note that a denomination value appears in the upper right corner of the display. The display will show:

Strap	Density	Denomination
100	* *	\$1
	0	* *
	Count	Speed

To count currency, it must first be separated by value (i.e., all \$1s together, all \$5s together, etc.).

Next, do one of the following:

- Repeatedly press the **DENOM** key until the value to be counted appears on the screen.
- Use the optional **Direct Access Denomination keys** with preset denomination values. Pressing a **denomination value key** of **\$10** will produce this screen:

Strap	Density	Denomination
100	* *	\$10
	0	* *
	Count	Speed

The optional **Direct Access Strapping keys** give the operator direct access to preset Strap Limits. To set a strap limit of 50, press a **strap key** of **50** to produce this screen:

Strap	Density	Denomination
50	* *	\$1
	0	* *
	Count	Speed

Place currency in the hopper and JetCount will begin counting each note. The machine will add the value of all the notes based on the chosen denomination key.

JetCount may stop if one of the following conditions occurs: JAM, CHAIN, DOUBLE, SUSPECT DOCUMENT and STRAP LIMIT. (See [Stopping Conditions and Recovery Steps](#) for instructions on clearing the condition indicated on the screen.)

JetCount will stop automatically within two seconds when all documents have been run.

Batch Accumulation, ADD Key OFF

Processing currency with the **ADD** function **OFF** clears the current count total each time the stacker is emptied. If you wish to “carry over” counts from one group of currency to the next, currency should be processed with the **ADD** function **ON**.

Assume that a group of notes consisting of \$1s, \$5s and \$10s is to be processed. First, the notes must be separated by denomination. Then scroll to the \$1 screen using the **DENOM key** or **Direct Access key**. Processing the \$1s will produce a screen similar to the following:

Strap	Density	Denomination
100	* *	\$1
	\$30	* *
	Count	Speed

When the notes are removed from the stacker, count totals will clear and a report will automatically generate if a printer is enabled.

Assume the notes are left in the stacker, pressing the **DENOM key** twice or the **Direct Access key** prepares the JetCount to process 25 notes. Processing the \$5 notes will produce this screen:

Strap	Density	Denomination
100	* *	\$5
	\$150	* *
	Count	Speed

The \$150 appearing at the center of the bottom line of the display is the total of all \$1s and \$5s processed to this point. Continuing with the \$10 notes, the screen reads:

Strap	Density	Denomination
100	* *	\$10
	\$230	* *
	Count	Speed

Again, the bottom line of the display is the total notes processed to this point (assuming the notes were not removed from the stacker). The total of the currency is \$230. This total will remain until the next group of notes is processed, at which time the count is reset to zero.

Batch Accumulation, ADD Key ON

As in the previous example, the operator has a group of notes consisting of \$1s, \$5s and \$10s that will be processed with the **ADD key ON**. First, the notes are separated by denomination. Then, the **DENOM key** or **Direct Access key** is used to select \$1. Processing the \$1 notes will produce a screen similar to the following:

Strap	Density	Denomination
100	* *	\$1
	\$30	* *
	Count	Speed

The operator may remove the notes from the stacker. The count total will resume at \$30 with the next note count.

Pressing the **DENOM** key twice or the **Direct Access** key prepares the JetCount to process \$5 notes. Processing the \$5 notes will produce this screen:

Strap	Density	Denomination
100	**	\$5
	\$150	**
	Count	Speed

The \$150 appearing at the center of bottom line of the display is the total of all the \$1 and \$5 notes processed to this point

Continuing with the \$10 notes, the screen reads:

Strap	Density	Denomination
100	**	\$10
	\$230	**
	Count	Speed

The total of the currency is \$230. This total will remain until **RESET** is pressed, at which time the count total will reset to zero.

Special Mode Menu

NOTICE

Both external ports **ARE NOT** compatible with phones or network connections, including Ethernet devices.

Never plug a phone or network connection, including Ethernet devices, into either external port. Equipment damage may occur.



These special modes only should be accessed by trained personnel. Incorrect use can negatively impact operation of the JetCount.

JetCount offers special modes for trained personnel. These modes include SET UP, DEFAULT and DIAGNOSTICS.

Entering the Special Modes Menu

To enter the *Special Modes Menu*, hold down **KEY 15** for 3-5 seconds. The following screen will appear:

Strap	Density	Denomination
1) USER SET UP: press KEY 3		
next selection: press KEY 5		
	Count	Speed

Press **KEY 3** to enter the Setup Fields. (See [Setup Fields.](#))

Press **KEY 5** to proceed to the next Special Mode option:

Strap	Density	Denomination
2) DEFAULT: press KEY 3		
next selection: press KEY 5		
	Count	Speed

Press **KEY 3** to set the selected default mode as the current operating system.

All Setup Fields will revert to the Factory default settings or the User settings defined in USER SET UP. Select Default Type in USER SET UP to select the desired Default. (See [Setup Fields.](#))

Press **KEY 5** for the following prompt to proceed to the next Special Mode:

Strap	Density	Denomination
3) DEFAULT: press KEY 3 next selection: press KEY 5		
	Count	Speed

Diagnostic Setup contains special setup options used by trained Cummins Allison service technicians.

Press **KEY 5** to return to Special Mode option 1) USER SET UP. To exit the *Special Mode Menu* and return to normal operation, press **KEY 7**.

Setup Fields

JetCount has Setup Fields that control a number of operating conditions. The fields are:

DEFAULT TYPE	PORT 2 STATUS	FUNCTION KEY SETTING
AUDIO ALARM STATUS	KEY LOCKOUT	PRINTER TYPE
SPEED SETUP	COMM REPORT	SETUP REPORT
PORT 1 STATUS	OPTIONS	REMOTE DISPLAY COUNT
	SD FUNCTION CONTROL	

To set up the various fields, hold down **KEY 15** for 3-5 seconds. Enter USER SET UP by pressing **KEY 3**. You may then scroll forward through the fields with **KEY 5** or scroll back with **KEY 4**. To change a field's settings, press **KEY 3** for an arrow prompt. Then press **KEY 13** (to scroll back) 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.



To save settings (or changes to settings), you must return the arrow to its initial start position, and then press **KEY 6** to exit the setup option (the arrow should not appear on the display screen). You may continue setup selection by pressing **KEY 4** or **KEY 5**. To exit setup and begin operation, press **KEY 7**.

For example, to install and set **Denomination Value keys**, enter Setup and scroll to Setup Field 10:

Strap	Density	Denomination
10) FUNCT	KEY	SETTIN
STRAP	KEY 7	5
	Count	Speed

Press **KEY 3** for the arrow prompt to view options and make changes.

Strap	Density	Denomination
10) FUNCT	KEY	SETTIN
→ STRAP	KEY 7	5
	Count	Speed

Press **KEY 13** or **KEY 14** to view sub-selections. For this example, press **KEY 13** or **KEY 14** to change to **DENOM** keys.

Then press **KEY 4** or **KEY 5** to move the arrow to change the status. To follow the same example, press **KEY 4** or **KEY 5** to move the arrow and change the key number:

Strap	Density	Denomination
10) FUNCT	KEY	SETTIN
DENOM	→ KEY 7	\$1
	Count	Speed

Press **KEY 14** or **KEY 15** to change the **KEY** number:

Strap	Density	Denomination
10) FUNCT	KEY	SETTIN
DENOM	→ KEY 8	\$5
	Count	Speed

Follow the same procedure to change the strap limit value (i.e., press **KEY 4** or **KEY 5** to move the arrow, then **KEY 14** or **KEY 15** to change the strap limit value). You must press **KEY 4** or **KEY 5** until you return the arrow prompt to its start position:

Strap	Density	Denomination
10) FUNCT	KEY	SETTIN
→ DENOM	KEY 8	\$5
	Count	Speed

Finally, be sure to press **KEY 6** to remove arrow prompt and save new setting.

Default Type

Because JetCount 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. After all necessary fields have been changed, be sure Default Type is set to USER and default the machine in *Special Modes Menu* to save the new settings. The settings for the preset “Factory” operating modes are shown below:

Status Item	Default Item	Factory
Audio Alarm Status	Jam	On
	Half Note	On
	Suspect Document	Off
	Strap Limit	Off
	Chain	On
	Double	On
Speed	Low	600
	Medium	1200
	High	1600
Port 1 Status		Off
Port 2 Status		Off
Key Lockout	VALUE	Off
	Speed	On
	Density	On
	Strap	On
	ADD	On
	SD	Off
	UV	Off
	MAG	Off
	DENOM	Off
	ADD	Off
	Key7	Off
	Key 8	Off
	Key 9	Off
	Key 10	Off
	Key 11	Off
Key 12	Off	
Key 13	Off	
Comm Report	Normal	
Options	MAG	Off
	UV	Off
SD Function Control		On
Function Key Setting		Strap
Printer Type		Generic
Setup Report		
Remote Display Count		Value

Audio Alarm Status

The audio alarm sounds for Jams, Half Notes, Doubles, Chaining Errors, Strap Limits and Suspect Documents. The alarm will sound three beeps for a Jam, Half Note, Double or Chaining Error, 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 it defaults to **ON** for Jams, Half Notes, Doubles and Chaining Errors, and **OFF** for the other conditions. Since model 4020 is not equipped with Suspect Document Detection, be sure to disable the alarm.

Speed

Processing speeds can be set to LOW, MED or HIGH. Speeds of 600-1600, in increments of 200, may be selected for each setting.

Port 1 Status and Port 2 Status

NOTICE

Both external ports **ARE NOT** compatible with phones or network connections, including Ethernet devices.

Never plug a phone or network connection, including Ethernet devices, into either external port. Equipment damage may occur.

These ports are used when interfacing with a computer (COMP); Cummins Allison Information Settlement System (CISS); Cummins Allison Information Settlement System with Status (CISS+ST); JetSort; printer and remote display. If the machine is not equipped with the communications option, these fields will not be included in setup.

Key Lockout

The following keys can be “locked out” (i.e., when pressed during operation, nothing happens): VALUE, SPEED, DNSTY, STRAP, ADD, SD, UV, MAG, DENOM, KEY 7, KEY 8, KEY 9, KEY 10, KEY 11, KEY 12 and KEY 13.

To lock a key **ON** (the key will always remain enabled), make sure the key is **ON** in the Key Lockout setup field:

1. Press **KEY 7** to return to normal operating mode.
2. Press the desired key to its **ON** position.
3. Run the motor by pressing the **RESET key (KEY 1)**, wait 5 seconds, and turn the machine **OFF**.
4. Hold down any key on the control panel while turning the machine **ON** and return to the Key Lockout Setup Field.
5. Scroll to the desired key and change the setting to **OFF**.
6. Back out of the screen (make sure the arrow prompt no longer appears on the screen by pressing **KEY 6**) and return to the normal operating mode.

The desired key should remain active in normal operating mode even if the user attempts to turn it **OFF**. For keys not available, be sure the key is set to **OFF**. For models 4021 and 4022, be sure to set the **SD** “Key Lockout” to an **ON** position.

Comm Report

This field enables Normal Communications Report format or Wedge Communications Report format. When connected to the Cummins Allison 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.”

Options

The magnetic head function (MAG) or UV Option (includes UV and FL) for suspect document detection can be enabled if the magnetic head and UV are installed, otherwise it should be disabled. For JetCount model 4020, both MAG and UV should be disabled. For JetCount model 4021, UV should be disabled

SD Function Control

Enables or disables the ability to view and change SD sensitivity settings during normal operation. Key Status and Options affect this feature. Please refer to the following chart.

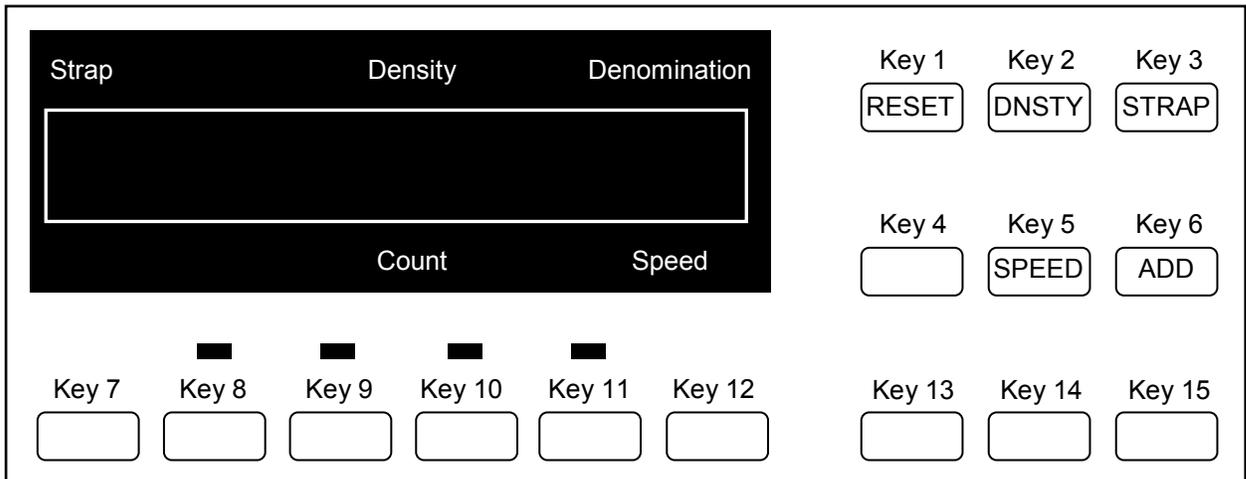
(For information on how to handle a suspect document during processing, see [Stopping Conditions and Recovery Steps](#).)

Key Lockout		Option	SD Function Control	Results
SD	MAG UV	MAG UV		
OFF	ON/OFF	ON	ON	<ul style="list-style-type: none"> SD is locked ON or OFF. If SD is locked ON, cannot change sensitivity level of Hi-Med-Low. Able to view, but not change sensitivity settings. If SD is locked OFF, cannot view or change sensitivity settings.
ON	ON	ON	OFF	<ul style="list-style-type: none"> SD key is locked ON or OFF. If SD is locked ON, Hi-Med-Low level can be changed and sensitivity settings can be changed. If SD is locked OFF, cannot view or change sensitivity settings.
ON	OFF/ON	OFF/ON	ON	<ul style="list-style-type: none"> If Mag or UV Option is OFF, Key Lockout for that option is automatically set to OFF. However, if the Option is changed to ON, Key Lockout will not revert to the ON setting. If Option is set to OFF, cannot change or view sensitivity settings for that option. If Option is set to ON, can view and change sensitivity settings.

Key Lockout		Option	SD Function Control	Results
SD	MAG UV	MAG UV		
ON	OFF	OFF	ON	<ul style="list-style-type: none"> If Mag and UV Option is OFF, Key Lockout for both options is automatically set to OFF. However, if the Option is changed to ON, Key Lockout will not revert to the ON setting. Unable to change or view SD Level or sensitivity settings.
ON	OFF/ON	ON	ON	<ul style="list-style-type: none"> If either Mag or UV Key Lockout is OFF, unable to change SD sensitivity settings for that option. For Mag or UV Key Lockout set to ON, can change SD Hi-Med-Low level and sensitivity.

Function Key Setting

This special feature allows the user to enable **Direct Access keys** with the optional key-top kit. You have the option of setting JetCount to function with the **Direct Access Denomination** or **Direct Access Strapping keys**. Within this field it is possible to set preset values for each key setting. STRAPS or DENOM must be chosen (they are mutually exclusive, i.e., all keys must be denomination values or strap values). Then, each key must be defined using the **SPEED** and **ADD keys**. Key positions are as follows:



Printer Type

If Port 1 or Port 2 is set to printer, the correct printer type must be selected to ensure proper printing and printer error reporting. Printer Types are defined as: Generic, Citizen 3535 and Citizen 270.

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 [Printed Reports](#) for an example.)

Remote Display Count

When the machine is connected to the remote display, enabling this feature to COUNT allows the JetCount to display the piece count. If this feature is set to VALUE, then the value amount will be displayed.

Reference

Daily Cleaning Procedures

Daily cleaning of the JetCount is recommended to ensure maximum productivity and reliability, especially for high-volume applications, as well as for those processing highly circulated (dirty) notes.

Recommended Cleaning Materials

CAUTION

Simple Green, the recommended cleaning agent, can be an eye irritant. Avoid eye contact.

If eye contact occurs, flush eye(s) with cool water for 5 minutes – remove contact lenses if present – continue flushing eye(s) with cool water for 15 more minutes. If irritation persists, consult physician.

Individuals with sensitive skin should rinse hands after using.

- **Simple Green Safety Towels.** (Part number: 022-2118-00.)
A pre-moistened microfiber towel also may be used. If using Simple Green concentrate, dilute to: 1 ounce of Simple Green per 8 ounces of water. *For a material-safety-data sheet, see simplegreen.com.*
- **Microfiber towels.** (Part number: 022-2223-00.)
- **A clean, soft eraser.** (Part number: 022-1695-00.)
- **Vacuum.** (Part number for standard vacuum: 022-1959-00; part number for heavy-duty vacuum: 022-1308-00.)

Daily Cleaning

WARNING

High voltage inside. Risk of electric shock.

Turn power **OFF** and unplug power cord from machine before cleaning.

NOTICE

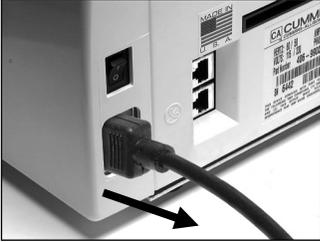
To avoid machine/component damage and potential voiding of existing warranty, follow these procedures:

Only use specified tools for cleaning machine. Never use metal tools.

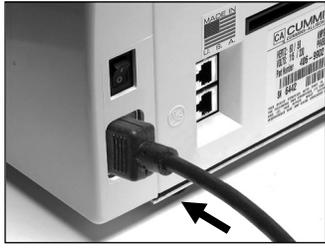
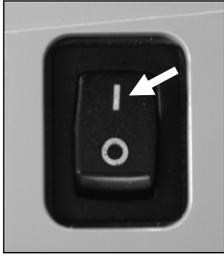
If using Simple Green concentrate, dilute to: 1 ounce of Simple Green per 8 ounces of water.

Never use cleaners containing ammonia. Ammonia may remove labels from machine.

Never spray cleaners directly on machine components.

1.		Turn power OFF (rocker panel to 0).
2.		Disconnect power cord from the back of the JetCount.
3.		Raise hopper.
4.	Remove feeder plate as shown below.	
5.		Use a microfiber towel to clean the black start sensor at the top, middle of the feeder plate, as identified at left.
6.	<p>Use a Simple Green Safety Towel to remove dirt buildup from the upper and lower aluminum rollers. To reach all exposed surfaces, rotate the large, black feed rollers forward (direction of note flow).</p> <p>NOTE Rotating the large, black feed rollers will rotate all other shafts and rollers in the machine. These rollers can be rotated in either direction by using fingers. Generally, the top of these rollers should be rotated forward (direction of note flow), so any dirt or stray material is moved out of the unit.</p>	

		<p>If there is heavy buildup on the aluminum rollers, remove it with a clean, soft eraser as shown.</p>
<p>7.</p>		<p>Use a Simple Green Safety Towel to clean all rubber sections of the large, black feed rollers. Rotate the rollers.</p> <p>Also clean the flat, center rubber-drive tire, as identified at left.</p>
<p>8.</p>		<p>Use a microfiber towel or vacuum to remove any remaining dust in the bottom stacker.</p>
<p>9.</p>		<p>Use a microfiber towel to clean the stacker-sensor lens located in the stacker tray between the two gray stacker wheels. Clean the stacker mirror located directly across from the stacker-sensor lens.</p> <p>Stacker-sensor lens</p> <p>Stacker mirror</p>
<p>10.</p>		<p>Replace feeder plate. Insert curved edge of feeder plate first. Gently press down on feeder plate until it snaps into position.</p> <p>Curved edge</p>
<p>11.</p>		<p>Clean exterior surfaces as necessary with a Simple Green Safety Towel.</p>

<p>12.</p>		<p>Clean and lower hopper.</p>
<p>13.</p>		<p>Carefully reconnect power cord.</p>
<p>14.</p>		<p>Turn power ON (rocker panel to I).</p>
<p>15. Perform a test run with some notes.</p>		

Stopping Conditions and Recovery Steps

The following conditions cause the machine to stop and require action by the user.

Condition	Description
NORMAL "TIME-OUT"	Documents are fed from the top hopper to the stacker until the hopper is empty. The machine will "time-out" in 2 seconds and is ready for the next group of documents.
STRAP LIMIT	The machine has reached a Strap Limit. The machine will stop, and the display will read STRAP LIMIT. Remove the notes from the stacker and the machine will automatically clear the Count (unless the ADD key is enabled) and will continue counting, provided there are still notes in the machine.
SUSPECT DOCUMENT	<p>For machines equipped with Magnetic or UV/FL, the machine will stop for a suspect note. The machine will stop and toggle between two screens:</p> <ul style="list-style-type: none"> • "SUSPECT DOCUMENT." "M" indicates Magnetic, "FL" represents Fluorescence, and "U" represents UV. • "CHECK NOTE/PRESS KEY 1." <p>Remove the "suspect" note from the stacker and press RESET. The machine will continue processing from the previous note count, prior to the suspect note occurrence, with no impact on the Total count.</p> <p>If a possible counterfeit note is stopped, and it is the second to the last note in the hopper, the machine will stop and indicate "SUSPECT DOCUMENT" and "CHECK NOTE/PRESS KEY 1." The recovery procedure described above should be followed.</p> <p>However, if the operator removes the notes in the stacker, without pressing RESET (KEY 1), and the hopper is empty, JetCount will beep three times and flush the last note out of the machine. The machine will add that last note, but the total will not include the counterfeit note.</p>
JAM	<p>The machine has jammed. The display will read TRANSPORT JAM DETECTED. To resume processing:</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-bottom: 10px;">NOTICE</div> <p>Do not use tools or metal devices to remove jammed notes from paper path. Use of tools or metal devices could cause machine damage and void existing warranty. For proper removal of jammed notes, follow the steps below.</p> <ol style="list-style-type: none"> 1) Remove the jammed note(s) to clear the jam. 2) Once the jam is cleared, remove the notes from the hopper and press RESET (KEY 1) to flush the machine. The Strap, Denomination and Batch counts will revert to the values that existed prior to the run that caused the jam. 3) Remove the documents from the stacker and feed all documents into the machine.

Condition	Description
CHAINS	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 RESET (KEY 1) . (The machine will continue processing from the previous note count with no impact on Strap, Denomination and Batch 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 all the documents from the stacker and place them back into the hopper. Press RESET (KEY 1) . (The machine will continue processing from the previous note count with no impact on Strap, Sub-Batch, Individual Denomination and counts.)
HALF NOTE	JetCount has detected a note smaller than the size JetCount was designed to process. When the condition occurs, the machine will stop and the screen will read HALF NOTE DETECTED . Remove the documents from the stacker and place them back into the hopper. Press RESET (KEY 1) . (The machine will continue processing from the previous note count with no impact on Strap, Denomination and Batch Counts.)

Machine Specifications

Processing Speed	600, 800, 1,000, 1,200, 1,400 and 1,600 notes per minute
Counting Accuracy	99.99%
Hopper Capacity	300 notes
Stacker Capacity	150 notes
Document Size	Minimum: 2.44" (H) x 3.5" (L) Maximum: 3.5" (H) x 7.12" (L)
Dimensions	9.5" (H) x 12" (D) x 11.75" (W)
Weight	15 lbs.
Power Requirements	105-130 VAC or 198-253 VAC, manual switching; 50/60 Hz; FLA: .6A/.3A. The customer must provide a single-phase, dedicated power line that meets the machine's power rating(s). Use a properly grounded circuit breaker in compliance with applicable local electrical code.
Environmental Operating Conditions	Humidity: 20% - 80% (without condensation) Temperature: 50° - 90° F

Machine Options

RS-232 communications	Extended hopper	Key-top kit
-----------------------	-----------------	-----------------------------

Glossary

Safety Messages and Advisories

Icon	Definition
	Warning indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Caution indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Notice is used to address practices not related to physical injury. In this manual, notice indicates a situation which, if not avoided, could result in property damage.
	Stop highlights a situation where an incorrect action or sequence of actions could lead to lost or inaccurate data, operation in an incorrect mode, or unintended outcomes in machine function.
	Note highlights information that is interesting or useful to know after completing a procedure.

Terms

Term	Definition
Batch	Documents processed as an overall group. Documents will be recorded as coming from one general source.
<u>Chains</u>	A condition that occurs when two or more documents run through the JetCount reading mechanism without proper spacing.
Count Processing (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).
Currency Processing (VALUE) Mode	The DENOM or Direct Access Denomination keys permit setting the JetCount so that each note passing through the machine is counted as if it were a specific value of currency.
<u>Default</u>	Conditions of operation that are either established during the setup process (which remain unchanged until reset) or have been incorporated into JetCount during manufacturing (to which the machine returns each time it is turned OFF , then ON).
Display	The Vacuum Fluorescent Display screen on the front of the machine reports the operating status.
<u>Doubles</u>	A condition that occurs when two documents pass through the JetCount reading mechanism simultaneously — stacked one on top of the other. The machine will stop when this condition occurs.

Term	Definition
<u>Factory Mode</u>	A special set of pre-programmed defaults for the JetCount Setup Fields.
Hopper	The area on top of the JetCount where documents are placed for processing.
Reset	Key is used to reset counts to zero. The RESET key is also used to restart the machine after a stopping condition.
<u>Setup Fields</u>	There are pre-operating conditions that can be assigned or controlled by the operator. Once they are set, they remain set (even if the machine is turned OFF) unless reset by re-entering the setup process.
Stacker	The area at the bottom front of the JetCount where processed documents are delivered.
Strap	The quantity of documents to be prepared for banding.
Suspect Document Sensitivity	JetCount allows the setting of different sensitivity levels per denomination for the detection of suspect documents. The lower the sensitivity, the greater the opportunity to pass a counterfeit note. The higher the sensitivity, the greater the opportunity to stop on a good (non-counterfeit) note.

Warranty Information

Equipment Warranty

The Equipment shall conform to the specifications set forth in SELLER's Quotation or published specification sheets. No changes in specifications shall be made without the written consent of SELLER. SELLER WARRANTS ALL NEW EQUIPMENT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE AND SERVICE FOR THE SPECIFIED WARRANTY PERIOD. UNLESS STATED OTHERWISE BY SELLER, THE WARRANTY PERIOD FOR PRODUCTS SOLD IN THE UNITED STATES IS ONE (1) YEAR PARTS, NINETY (90) DAYS LABOR FROM THE DATE OF DELIVERY. SELLER'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO REPAIR OF THE EQUIPMENT AND REPAIR OR REPLACEMENT OF ANY OF ITS PARTS REASONABLY DETERMINED BY SELLER TO BE DEFECTIVE.

The New Machine Warranty for products sold outside the United States by an Authorized RESELLER of Cummins-Allison Corporation may contain different terms as required by local laws and regulations. Please verify this with the RESELLER.

However, if the Equipment is located within a SELLER Customer Service area and is covered by a Maintenance Agreement entered into with an authorized SELLER representative at the time of purchase, any material or workmanship found defective will be replaced or repaired at SELLER's option, without charge, at any time during the Maintenance Agreement Period (excluding consumables).

The parts warranty for repair work is the longer of ninety (90) days or the original parts warranty period. The labor warranty for repair work is the longer of thirty (30) days or the original equipment labor warranty period.

This warranty does not cover software, which is covered by a separate warranty.

Software Warranty

SELLER warrants that it has the right to grant a license for use of the Software included in its Equipment. SELLER warrants for a period of ninety (90) days from the date of sale of its Equipment that the Software will substantially conform to the functionality described in the specifications referred to in the Equipment Warranty (above). This warranty is void if a Software error or malfunction is caused by modifications of the Software, by unauthorized installation of additional software or software updates in a manner other than allowed by the SELLER's published policies regarding such installation, by equipment not made by SELLER, by incorrect data or procedures used by BUYER's personnel, or if BUYER fails to apply the current release of the Software provided to BUYER. Any violation of these terms may result in time and material charges for SELLER'S personnel to restore the machine to its original working condition.

BUYER'S SOLE AND EXCLUSIVE REMEDIES UNDER THIS WARRANTY ARE (1) THE CORRECTION OF THE SOFTWARE SO THAT IT PERFORMS AS WARRANTED (CORRECTION MAY INCLUDE THE REPAIR OR REPLACEMENT OF THE SOFTWARE AS PART OF SELLER'S MAINTENANCE) OR (2) IF AFTER REPEATED EFFORTS, SELLER DETERMINES AND NOTIFIES BUYER THAT IT IS UNABLE TO MAKE THE

SOFTWARE PERFORM AS WARRANTED, BUYER MAY RETURN THE EQUIPMENT TO SELLER AT BUYER'S EXPENSE AND RECEIVE A REFUND OF THE PURCHASE PRICE LESS A REASONABLE ALLOWANCE FOR BUYER'S USE.

Disclaimer and Limitation of Liability

The warranties herein shall be applicable only if the Equipment shall be the property of the original purchaser or user and shall have been properly used, operated and maintained in accordance with the manual or instructions provided with the Equipment and for the purpose for which sold. Normal wear and tear and consumable supplies are not covered by these warranties.

These warranties shall not be applicable if the Equipment or any part thereof has been repaired or replaced by the BUYER without the SELLER'S prior written permission or has been subjected to any accident, casualty, acts of God, misapplication, alteration, abuse, misuse or adverse operating conditions (see [Specifications](#)). The warranties herein shall not apply to Equipment or Software sold outside the United States, for which SELLER'S warranties shall be set forth separately and in accordance with local laws.

No other warranty, either express or implied, and including a warranty of merchantability or fitness for a particular purpose or against infringement, has been or will be made by or on behalf of SELLER, or by operation of law with respect to the equipment and accessories or their installation, use, operation, replacement, or repair whether used alone or with any third party products or software.

SELLER SHALL NOT BE LIABLE BY VIRTUE OF THIS WARRANTY, OR OTHERWISE, FOR ANY DAMAGES OR EXPENSES ASSOCIATED WITH ANY THEFT, LOSS, TRANSFER OR MISDISPENSING OF FUNDS OR PROPERTY, LOSS OF DATA, INTERRUPTION OF BUSINESS, LOST PROFIT OR FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGE RESULTING FROM THE USE OR OPERATION OF THE EQUIPMENT, OR OTHERWISE ARISING, WHETHER OR NOT SELLER WAS APPRISED OF THE POSSIBILITY OF SUCH DAMAGES. SELLER'S LIABILITY FOR DAMAGES TO BUYER FOR ANY CAUSE WHATSOEVER SHALL NOT EXCEED THE PURCHASE PRICE FOR THE EQUIPMENT ON WHICH THE CLAIM IS BASED. THE STATED WARRANTIES ARE THE EXCLUSIVE REMEDY TO WHICH BUYER IS ENTITLED. REPAIR OR REPLACEMENT SHALL BE BUYER'S SOLE REMEDY UNDER THESE WARRANTIES.

SELLER shall defend and settle, at its own expense, any claim or suit against BUYER alleging any Equipment or Software sold or licensed by SELLER in the form delivered (but not the use thereof) infringes any U.S. patent, trademark or copyright and pay all damages assessed by final judgment against BUYER due to such infringement, provided, however, that BUYER notifies SELLER promptly in writing of any claims, provides SELLER sole control of the defense, cooperates with SELLER and permits SELLER to replace or modify the Equipment or Software to become noninfringing. SELLER may, at its option, retake possession of the Equipment or Software and refund the purchase price less a reasonable allowance for BUYER's use. This section states the entire liability of SELLER for infringement by the Equipment or Software.



852 Feehanville Drive
Mt. Prospect, IL 60056
800 786 5528

cumminsallison.com

This manual contains proprietary information of Cummins-Allison Corp. It is intended solely for the information and use of parties authorized by Cummins-Allison Corp. to maintain the equipment described herein. Such proprietary information may not be used, reproduced, or disclosed to any other parties for any other purpose without express written permission of Cummins-Allison Corp.

Cummins-Allison Corp. has endeavored to make the content of this document accurate and complete, but this information is subject to correction or change without prior notice.

All trademarks remain the property of their respective owners.

© 2012 Cummins-Allison Corp. All rights reserved.

022-7200-00 REV. C 04/2012