

Quick Reference

for **JetScan™**



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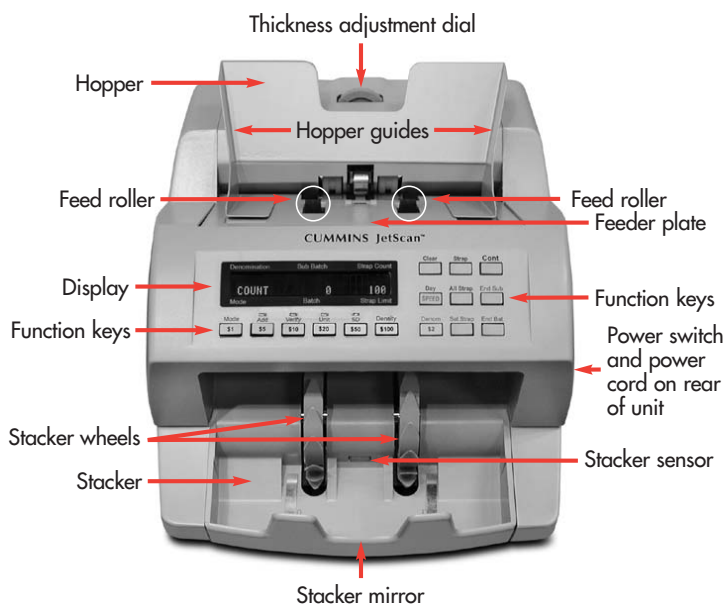
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Quick Reference

for **JetScan™**

Machine Diagram



Daily Cleaning Procedures

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

Follow these steps, which only will take a few minutes.

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 towelette or 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.
- 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.)

* Simple Green® is a registered trademark of Sunshine Makers Inc. For a material-safety-data sheet, see www.SimpleGreen.com.

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.

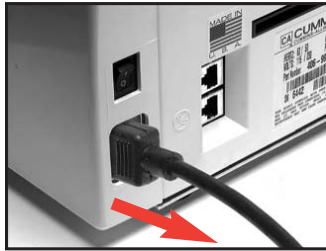
If using Simple Green® concentrate, dilute to: 1 ounce of Simple Green® per 8 ounces of water.

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

Never spray cleaners directly on machine components.



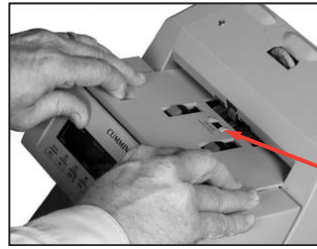
- 1** Turn power **OFF** (rocker panel to **0**).



- 2** Disconnect power cord from the rear of the JetScan.



- 3** Remove hopper extension.



- 4** Remove feeder plate as shown at left.

- 5** Use a microfiber towel to clean the black start sensor at the top, middle of the feeder plate.

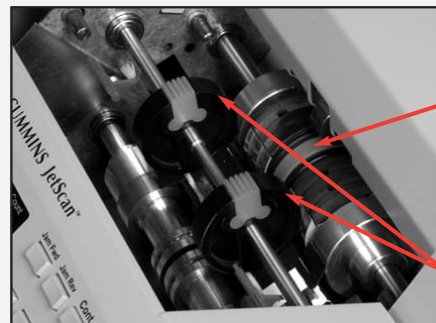
Start sensor



- 6** 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). (See Helpful Hint below.)

If there is heavy buildup on the aluminum rollers, remove it with a clean, soft eraser as shown.

Helpful Hint: 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.



Center rubber-drive tire

Black feed rollers



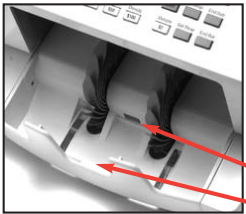
7 Use a Simple Green® Safety Towel to clean all rubber sections of the large, black feed rollers. Rotate the rollers.

Also clean the flat, center rubber-drive tire.

Flat, center rubber-drive tire



8 Use a microfiber towel or vacuum to remove any remaining dust in the bottom stacker.



9 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.

Stacker-sensor lens
Stacker mirror



10 Replace feeder plate. Insert curved edge of feeder plate first. Gently press down on feeder plate until it snaps into position.

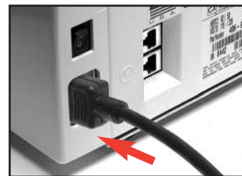
Curved edge



11 Clean exterior surfaces as necessary with a Simple Green® Safety Towel.



12 Replace hopper extension.



13 Carefully reconnect power cord.



14 Turn power **ON** (rocker panel to I).

15 Perform a test run with some currency.



Cleaning Supplies

The following items are available for purchase through Cummins-Allison Corp.

Desktop-Currency-Equipment Cleaning Kit

(Part Number: 406-1000-01.)

The kit contains:

- 2 stick erasers
- 20 microfiber towels
- 50 Simple Green® Safety Towels
- Quick-reference guides

Items Sold Separately

- 1 stick eraser. (Part number: 022-1695-00.)
- 20 microfiber towels. (Part number: 022-2223-00.)
- 50 Simple Green® Safety Towels. (Part number: 022-2118-00.)
- Vacuum. (Part number for standard vacuum: 022-1959-00; part number for heavy-duty vacuum: 022-1308-00.)

Power-Adapter Cable (Part Number: 022-1962-00.)

This cable allows the power cord that is disconnected from the rear of the JetScan to be used to power the vacuum.

How to Order

To place an order in the United States, please call **1-800-745-9483**, visit **www.CumminsSupplies.com**, or contact your local Cummins representative.

To place an order outside of the United States, contact your local Cummins representative.

Quick Reference

for **JetScan™**

Stopping Conditions and Recovery Steps

In operation, the JetScan currency scanner display will advise users of conditions that have caused the machine to stop. These stopping conditions require attention.

Stopping-condition displays are shown in alphabetical order on the following pages, along with brief explanations and steps that should be taken to continue operation. A sample is shown below.

Explanation

Display

(Listed alphabetically)

DISPLAY

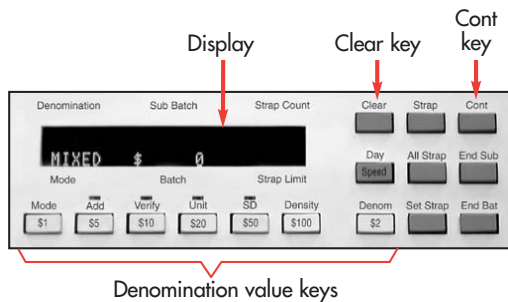
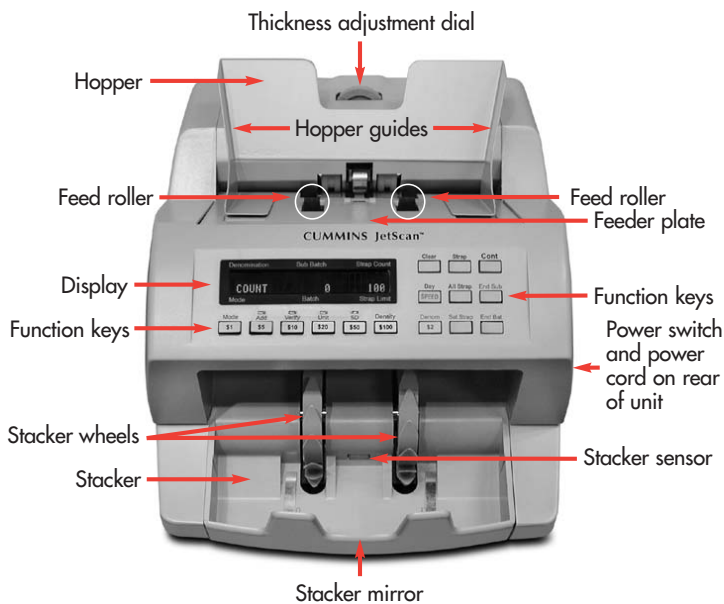
JetScan may have processed two or more notes as one.

CHAIN DETECTED*

- Remove all notes from the bottom stacker and place them on the top hopper. Press **Cont.** If an alarm repeatedly occurs, adjust the gray thickness dial located on top of the machine behind the hopper. Rotate in the negative (-) direction as indicated by numbers on front of the thickness dial.

**Necessary steps
to continue operation**

Machine Diagram



Stopping Conditions and Recovery Steps

Screens Listed Alphabetically

DISPLAY ►

JetScan may have processed two or more notes as one.

CHAIN DETECTED*

- Remove all notes from the bottom stacker and place them on the top hopper. Press **Cont**. If an alarm repeatedly occurs, adjust the gray thickness dial located on top of the machine behind the hopper extension. Rotate in the negative (-) direction as indicated by the numbers on the front of the thickness dial.

DISPLAY ►

JetScan has identified a note that is different than those it has been processing while using sort mode.

This first note of the different denomination is the top note in the lower stacker.

\$1
DENOMINATION CHANGE

- Remove all notes from the bottom stacker. Separate the top note from the remaining notes. Put the top note in the location for its denomination. Put all the other notes (they are all the same) in the location for their denomination. JetScan automatically will restart.

DISPLAY ►

JetScan may have processed two or more notes as one.

DOUBLE DETECTED

- Remove all notes from the bottom stacker and put them on the top hopper. Press **Cont**. If an alarm repeatedly occurs, adjust the gray thickness dial on top of the machine behind the hopper extension. Rotate in the negative (-) direction as indicated by the numbers on the front of the thickness dial.

DISPLAY ►

JetScan has identified a note that is incorrectly faced.



1 Users should either:

- Face the note, replace it in the bottom stacker, and press the appropriate **denomination value key**.
- Correctly face the note, return it to the top hopper, and press **Cont**.

DISPLAY ►

Currency or possibly foreign material is jammed in the paper path and must be removed.



NOTICE

Do not use tools or metal devices to remove jammed currency from paper path.

Use of tools or metal devices could cause machine damage and void existing warranty.

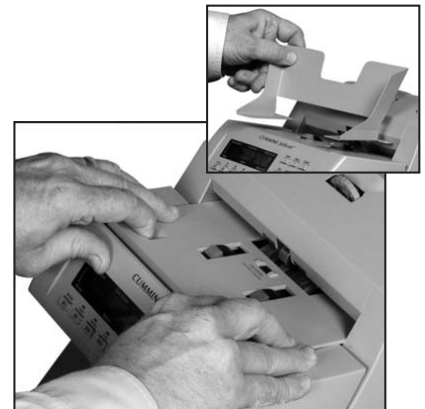
For proper removal of jammed currency, see step No. 2 on Page 13.

1

- 1 Remove all notes from the top hopper and bottom stacker.

Remove the hopper extension, as shown in inset.

Remove the feeder plate, as shown at right.



Remove feeder plate by lifting with fingers in the two depressions.

When notes are removed from the bottom stacker, the display will show:

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

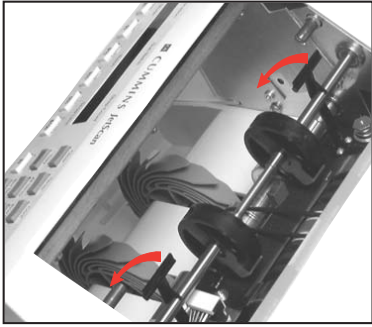


2

- 2 Raise the two red, plastic "T" handles at the same time and hook them onto the metal shaft. Then either:

- Move jammed notes forward/back by manually rotating the large, black feed rollers. (See Helpful Hint on Page 5.)
- Press **Clear** to slowly move the feeder **forward**.
- Press **Strap** to slowly move the feeder in **reverse**.

Remove all jammed notes and foreign material.



- 3** Unhook the two red, plastic "T" handles from the metal shaft and lower them at the same time.



- 4** Replace feeder plate. Insert curved edge of feeder plate first. Gently press down on feeder plate until it snaps into position.

Curved edge



- 5** Replace the hopper extension.
Press **Cont.**
Rerun all notes that were in the top hopper and bottom stacker at the time of the jam.

These two screens will sequentially flash:



This screen could show any of these messages:

- NO CALL
- NO CALL SKEW
- NO CALL*
- NO CALL**
- NO CALL***

DISPLAY

JetScan cannot recognize the denomination of a note and has stopped. This "NO CALL" note is the top note in the bottom stacker. This note has not been included in the count.

- 1 Inspect the top note in the bottom stacker. DO NOT remove all notes from the bottom stacker.

To count the note, keep the note in the bottom stacker and then enter its denomination using the correct **denomination value key** (\$1, \$5, \$10, etc.). JetScan will start, and this note will be added to the count.

To not count the note, remove it and press **Cont.** JetScan will re-start. The removed document WILL NOT be added to the count.

If the note is not mutilated, it may be returned to the top hopper for reprocessing.

DISPLAY

JetScan has identified a note that is incorrectly oriented.



- 1 Users should either:

- Orient the note and return it to the bottom stacker, then press the appropriate **denomination value key** (\$1, \$5, \$10, etc.).
- Correctly orient the note and return it to the top hopper and press **Cont.**

DISPLAY ▶

JetScan has detected a note of a different denomination from those being counted and has stopped. This "stranger" note is the top note in the bottom stacker. This note has not been included in the count.

\$1
REMOVE STRANGER

- Remove the top note in the bottom stacker and press **Cont.**

These two screens will sequentially flash:

DISPLAY ▶

The wrong **denomination value key** was pressed.

\$20
\$1 STRANGER?

CHECK NOTE
PRESS KEY

- Review the top note in the bottom stacker and press the correct **denomination value key**.

DISPLAY ▶

The number of notes in the bottom stacker has reached the preset strap limit.

STRAP LIMIT
100 BILLS

- Remove the notes from the bottom stacker.
JetScan automatically will continue if there are additional notes remaining in the top hopper.

ONLY ON MODELS 4062, 4063, 4064, 4065, 4068:
These two screens will sequentially flash:

SUSPECT DOCUMENT
M

CHECK NOTE
PRESS KEY

This line could show different suspect document (SD) codes. For details, refer to the SD code chart below.

DISPLAY ▶

JetScan sensors have detected a possible counterfeit note. JetScan has stopped with this note as the top note in the bottom stacker. This note has not been included in the count.

- Inspect the top note in the bottom stacker. Next there are two options:
 - If it is identified as a counterfeit, place it aside and press **Cont.** It will not be part of the count.
 - If the note is determined to be good, return it to the bottom stacker and press the appropriate **denomination value key**. JetScan will re-start, and this note will be added to the count.

SD Code	Possible Causes
M	<ul style="list-style-type: none">Incorrect-ink errorWorn note
UV	<ul style="list-style-type: none">Incorrect-currency paperSoiled note
FL	<ul style="list-style-type: none">Incorrect-currency paperMachine-washed noteTaped note

ONLY ON MODEL 4069:
These two screens will sequentially flash:



This line could show different suspect document (SD) codes.
For details, refer to the SD code chart at right.

DISPLAY ▲

JetScan sensors have detected a possible counterfeit note. JetScan has stopped with this note as the top note in the bottom stacker. This note has not been included in the count.

- Inspect the top note in the bottom stacker. Next there are two options:
- If it is identified as a counterfeit, place it aside and press **Cont**. It will not be part of the count.
 - If the note is determined to be good, return it to the bottom stacker and press the appropriate **denomination value key**. JetScan will re-start, and this note will be added to the count.

SD Code	Possible Causes
S1	<ul style="list-style-type: none">• Incorrect-currency paper• Soiled note
S2	<ul style="list-style-type: none">• Incorrect-currency paper• Machine-washed note• Taped note
S3	<ul style="list-style-type: none">• Incorrect-currency paper• Soiled note
S5	<ul style="list-style-type: none">• Incorrect-ink error• Worn note
S8*	<ul style="list-style-type: none">• Note failed advanced counterfeit test• Worn note
S10*	<ul style="list-style-type: none">• Incorrect-ink error• Genuine AK Series \$100• Worn note
S11*	<ul style="list-style-type: none">• Incorrect-ink error• Worn note

* These error codes are most common among super notes, which are high-quality counterfeits.
Notes producing these codes should be carefully examined.



These three screens will sequentially flash:

DISPLAY ►

JetScan is indicating there possibly is a problem with the right, left or both doubles sensors.

WARNING - BOTH DOUBLES
SENSORS ARE FAULTY

ENSURE THAT SENSORS ARE
CLEAR OF PAPER AND DUST

CALL SERVICE IF
PROBLEM PERSISTS

- Press **Cont** to attempt continued operation. If the alarm occurs again, clean the machine by following the daily cleaning procedures at the front of this booklet. If the message continues to appear, call a local Cummins service representative.
-

These four screens will sequentially flash:

DISPLAY ►

JetScan is indicating there possibly is a problem with the ultraviolet (UV) bulb ("BECOMING WEAK," "INTENSITY OUT OF RANGE" or "UNRELIABLE").

UV DETECTION
IS UNRELIABLE

WARNING - UV BULB
INTENSITY OUT OF RANGE

CALL SERVICE

PRESS KEY 3
TO CONTINUE

- Press **Cont** to continue operation. If the machine is not equipped with ultraviolet (UV), be sure to turn the feature off in SETUP (see JetScan operating instructions). If the message continues to appear, contact a local Cummins service representative.