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.
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
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.

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

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.

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

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

Replace hopper extension.

Carefully reconnect power cord.

Turn power ON (rocker panel to I).

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.

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

JetScan™
STOPPING CONDITIONS & RECOVERY

Display (Listed alphabetically)

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
**STOPPING CONDITIONS & RECOVERY**

**JetScan™**

**Machine Diagram**

- **Hopper**
- **Hopper guides**
- **Feed roller**
- **Feed roller**
- **Feeder plate**
- **Display**
- **Function keys**
- **Stacker wheels**
- **Stacker**
- **Stacker mirror**
- **Stacker sensor**
- **Thickness adjustment dial**
- **Function keys**
- **Power switch**
- **and power cord on rear of unit**
- **Display**
- **Clear key**
- **Cont key**
- **Denomination value keys**

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**Display**

JetScan may have processed two or more notes as one.

- **CHAIN DETECTED**

- 1. 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.

- **DENOMINATION CHANGE**

- 1. 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**

- 1. 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.
When notes are removed from the bottom stacker, the display will show:

**ATTACH HANDLES TO SHAFT**

<**CLEAR**>=FWD  <**STRAP**>=REV

**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.
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.

These two screens will sequentially flash:

- 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.

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

Display

JetScan has identified a note that is incorrectly oriented.

$1 ORIENTATION ERROR

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.
JetScan™

**STOPPING CONDITIONS & RECOVERY**

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

**These two screens will sequentially flash:**

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

1. 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.

1. 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:**

**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.

1. 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.

<table>
<thead>
<tr>
<th>SD Code</th>
<th>Possible Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>• Incorrect-ink error</td>
</tr>
<tr>
<td></td>
<td>• Worn note</td>
</tr>
<tr>
<td>UV</td>
<td>• Incorrect-currency paper</td>
</tr>
<tr>
<td></td>
<td>• Soiled note</td>
</tr>
<tr>
<td>FL</td>
<td>• Incorrect-currency paper</td>
</tr>
<tr>
<td></td>
<td>• Machine-washed note</td>
</tr>
<tr>
<td></td>
<td>• Taped note</td>
</tr>
</tbody>
</table>
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.

### Display Key

JetScan will show the following displays:

- **SUSPECT DOCUMENT**
- **CHECK NOTE**
- **PRESS KEY**

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

**Table: SD Code Possible Causes**

<table>
<thead>
<tr>
<th>SD Code</th>
<th>Possible Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>- Incorrect-currency paper</td>
</tr>
<tr>
<td></td>
<td>- Soiled note</td>
</tr>
<tr>
<td>S2</td>
<td>- Machine-washed note</td>
</tr>
<tr>
<td></td>
<td>- Taped note</td>
</tr>
<tr>
<td>S3</td>
<td>- Incorrect-currency paper</td>
</tr>
<tr>
<td></td>
<td>- Soiled note</td>
</tr>
<tr>
<td>S5</td>
<td>- Incorrect-ink error</td>
</tr>
<tr>
<td></td>
<td>- Worn note</td>
</tr>
<tr>
<td>S8*</td>
<td>- Note failed advanced counterfeit test</td>
</tr>
<tr>
<td></td>
<td>- Worn note</td>
</tr>
<tr>
<td>S10*</td>
<td>- Incorrect-ink error</td>
</tr>
<tr>
<td></td>
<td>- Genuine AK Series $100</td>
</tr>
<tr>
<td>S11*</td>
<td>- Incorrect-ink error</td>
</tr>
<tr>
<td></td>
<td>- Worn note</td>
</tr>
</tbody>
</table>

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

**Lower probability of a super note, but commonly identifies poor-quality counterfeit notes**

**Higher probability of a super note**
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.