

JetSort®

High-speed coin sorter

Operating instructions for 3000, 4000 & 6000 series



Safety information, power specifications



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 personnel.

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

Read and understand all instructions before use.

NOTICE

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

Provide separate circuit serving only this device and follow listed power requirements to ensure proper operation.

Provide power conditioning/stabilizing devices if necessary.



Sort disk rotates when motor is running. Risk of injury.

Do not defeat safety interlock switches.

- **Voltage operating range:** 105-253 VAC, automatic switching
- **Frequency:** 50-60 Hz
- **Full load amps (FLA):** 4.5A/9A
- **Electrical supply circuit:** The customer must provide a single-phase, dedicated power line that meets the machine's power requirements. Use a properly grounded circuit breaker in compliance with applicable local electrical code.

Environmental Operating Conditions

- **Temperature:** 60°F - 85°F (15°C - 29°C)
- **Humidity:** 30% to 70% (non-condensing)

Compliance Acknowledgments

- **Laser:** This equipment may contain Class 2 laser products and complies with FDA Radiation Performance Standards, 21 CFR Subchapter 1 and the international laser safety standard IEC-60825.1-2001-08.
- **FCC:** 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.
- **Regulatory:** cUL, CE

Getting to Know Your JetSort®

Thank You

Thank you for selecting JetSort® high speed coin sorter from Cummins Allison.

For Your Records

Please fill in the following information for easy reference.

JetSort Model No.	
JetSort Serial No.	
Local Cummins Allison branch office:	
Phone:	

Features

This manual describes all available JetSort features and functions; however, this particular unit may or may not be equipped with every option.

To learn more, see **Specifications**.

Recommended Maintenance

See **Daily Cleaning Procedures**.

Operations

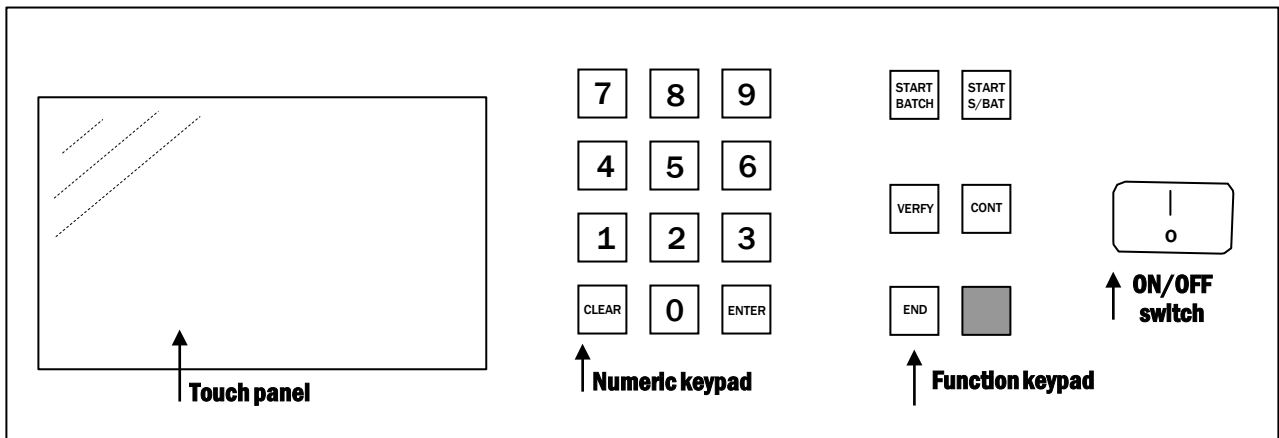
About JetSort

Cummins Allison JetSort is a high-volume coin sorter/counter which combines high speed, accuracy and reliability. To add to its versatility, Cummins Allison offers additional software modules to enhance JetSort features. These enhancements include the following:

Feature	Description
Data Entry	Allows data to be entered for Labels, IDs, Declared Balances for Batches and Sub-Batches, and other receipts (values for currency, checks and miscellaneous items).
Programmable Jet Stops (PJS)	Allows individual coin bag limits to be set and saved for as many as 25 files.
Labels	Allows identification of operators, routes, types of accounts or any other characteristics. Labels can be customized to reflect user-specific terminology both on the display and when output to a printer.
ID	Allows entry of up to 150 different ID types in long-term memory. IDs can be designated for teller, product, machine or any other item desired by the user. IDs can be customized to reflect user specific terminology both on the display and when output to a printer. Number designated must be between one and 150. If a number higher than 150 is entered, JetSort alerts the user with a message stating invalid number.
Communications	Allows connection of JetSort to an external computer or printer.
Remote Display	Allows for connection to a Cummins Allison LED remote display with large characters, which are easily seen from a distance.
JetScan® Interface	Allows for connection of a JetScan® to a JetSort for complete automation and consolidated reporting of coin and currency processing.
JetCount® Interface	Allows integration of a Cummins Allison JetCount® with the JetSort for complete automation and consolidated reporting of coin and currency processing.
Bar Code Interface	Allows for connection of a Bar Code Wand or Bar Code Gun for expedient data entry into label fields.

JetSort is designed to provide a wide range of programmable features to meet specific needs. Performance depends upon which features are incorporated into this specific machine. Its operation and the appearance of certain screens may also be affected by standard pre-programmed features.

Some operations and displays described here may not be consistent with those shown on this machine. JetSort operation may vary according to the specific configuration and enabled features. For more information, see *SETUP*.



Control Panel

The control panel of the JetSort consists of a touch panel keyboard and display, a 12-key numeric keypad, six function keys and an ON/OFF switch.

The JetSort touch panel is the primary interface for setting up and saving operation mode configurations.

The numeric keypad (numerals 0 - 9, CLEAR and ENTER) is used for entering numeric data and clearing values as required.

The six function keys are used to start a Batch (**START BATCH**), start a Sub-Batch (**START S/BAT**), verify counts (**VERIFY**), continue sorting (**CONT**), end Batches and Sub-Batches (**END**) and STOP (red-colored key).

Operating JetSort

Before turning on the power, check to make certain that there is a bag in place for each denomination to be counted.

Turn on the main power switch located on the right side of the Control Panel.

Press the **START BATCH** key.

Feed coin from the inspection tray into the sorting chamber. A new Batch or Sub-Batch is created by ending the previous, and pressing the **START BATCH** or **START S/BAT** keys.

Features

Once coin processing begins, JetSort may prompt for additional information which can be entered while coin is sorted. The prompts displayed vary by the enabled features, but may include the following:

Feature	Description
BAT DECL BAL or SBAT DECL BAL	Enter expected totals in order to compare them to actual monies sorted and counted.
BILCNT	Connect JetScan to JetSort when set to AUTO or DEMND.
CHECK	Enter values for checks as part of monies received.
CURRENCY	Enter values for paper currency as part of monies received.
DATE	Track monies by date. Normally entered on the numeric keypad and touch panel keyboard as (MM-DD-YY) followed by ENTER. The Date field may also be used to track other variables. A maximum of 12 numerals may be entered. Unlike some JetSort prompts, the Date field cannot be bypassed without entering data.
ID	Track information in as many as 150 separate day-total registers via an identity code (numbers 1 -150). ID registers may be used to accumulate counts for products, routes, tellers or other variables. A prompt for ID appears when processing Batches and Sub-Batches and cannot be bypassed. Enter ID codes through the numeric keypad and select ENTER. Like Label headers, ID headers may be customized with names of up to 12 characters each (alpha and numeric).
LABELS	Allows tracking and reporting of JetSort information by four operator-specified categories A, B, C and D. Label headers (i.e. route, bag, customer, operator, teller, etc.) may be customized with names of up to 12 characters (alpha and numeric) each.
MISC	Allows entry of values, coupons, chips and other non-coin media as part of monies received.

A prompt may be bypassed by selecting **ENTER**. Selecting **JUMP** skips to the end of a prompt sequence. ID or DATE prompts may not be skipped or left blank.

After coins have cleared the sorting chamber, select the **STOP** (red key) or allow the machine to automatically time out.

To continue adding coins to the same Batch, select **CONT** and process additional coins.

Sorting Batches and Sub-Batches

Starting Batches and Sub-Batches

The JetSort tracks coins in the same Batch until **START S/BAT** is selected. Once **START S/BAT** is selected, the JetSort counts all subsequent coins as a separate Sub-Batch.

Continuing and Ending Batches and Sub-Batches

Continuing and ending Batches and Sub-Batches varies depending on whether the **END SUBBAT** function is set at automatic (AUTO) or required (REQ'D) in *SETUP/Enable Functions*. JetSort is shipped with AUTO as the default setting.

END S/Bat Set to AUTO

With the **END S/BAT** function set to AUTO, after processing coins, there are three options:

1. Begin a new Sub-Batch by selecting **START S/BAT** again,
2. Continue the first Sub-Batch by loading more coin and selecting **CONT**, or
3. End the current Sub-Batch by selecting **END**. Pressing the **END** key a second time will end the current Batch.

END S/Bat Set to REQ'D

With the **END S/BAT** function set for REQ'D, after processing coin, there are four options:

1. End the current Sub-Batch by selecting **END**.
2. Begin a new Sub-Batch by selecting **END**, followed by **START S/BAT**,
3. Continue a Sub-Batch by loading more coin and selecting **CONT** key, or
4. End the current Sub-Batch and current Batch by pressing the **END** key twice.

With the **END S/BAT** function set for REQ'D, a Sub-Batch is ended only when the **END** key is pressed. All coin sorted after beginning a Sub-Batch is counted toward the current Sub-Batch until **END** is selected. Press **END** once to end the current Sub-Batch and press it a second time to end the Batch.

Entering Information

The procedure for entering information varies depending on whether data items are set on AUTO or DEMND in *SETUP/Data Entry Selections*.

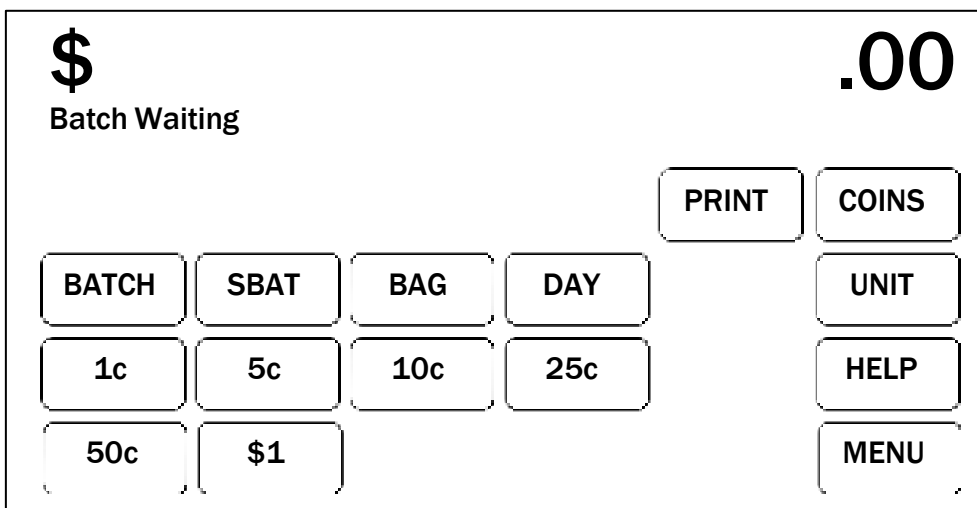
When set for AUTO, the operator will be automatically prompted for data entry, after beginning a Batch or Sub-Batch. After beginning a Batch or Sub-Batch, enter the appropriate information via the numeric keypad followed by **ENTER**. Pressing **ENTER** records the information and advances to the next label entry screen. Label entry screens appear similar to the one shown below:



A label entry screen titled "MACHINE (B)". It features four buttons: "DASH -" on the left, and "HELP", "JUMP", and "EXIT" on the right. "JUMP" and "EXIT" are stacked vertically below "HELP".

When set for DEMND, JetSort will only display data entry screens on demand by operator.

To enter label information (A-D), paper currency values, IDs and declared balances for Sub-Batches and Batches; the JetSort must be actively sorting coin or be in a Batch Waiting condition. Information cannot be entered while in a Batch Ended condition. To enter information, select **MENU**.



A "Batch Waiting" screen. At the top left is a large "\$" symbol, and at the top right is a large ".00". Below the "\$" is the text "Batch Waiting". The screen contains several buttons: "BATCH", "SBAT", "BAG", and "DAY" in a row; "1c", "5c", "10c", and "25c" in a row below them; "50c" and "\$1" in a row below that. To the right of these is a column of buttons: "PRINT", "COINS", "UNIT", "HELP", and "MENU".

From the OPTION MENU, select DATA.

*** * OPTION MENU * ***

Batch Ended:
SELECT FUNCTION:

PJS

DATA

HELP

EXIT

From the DATA ENTRY MENU, select the appropriate key to enter label (A-D), currency, checks, miscellaneous, ID, declared Batch and Sub-Batch information. Enter desired information for each media item through the numeric keypad, followed by ENTER.

*** * DATA ENTRY MENU * ***

Batch Waiting:
SELECT DATA ITEM:

A

B

C

D

CURR

CHECKS

MISC

ID

BDBAL

SDBAL

HELP

EXIT

Selecting **ENTER** records the information and advances to the next data entry screen for Labels A, B, C, D and IDs. ENTER must be pressed twice to record information and move to the next screen for the following functions: CURRENCY, CHECKS, MISC, BATCH DECLARED BALANCE and SUB-BATCH DECLARED BALANCE.

Entering Label Information

From the DATA ENTRY MENU, select a **Label** (A, B, C, D).

*** * DATA ENTRY MENU * ***

Batch Waiting:
SELECT DATA ITEM:

A	B	C	D
CURR	CHECKS	MISC	
ID	BDBAL	SDBAL	

HELP

EXIT

Selecting a **Label** (A-D) displays a screen similar to the one shown below:

ROUTE
(A)

DASH -

HELP

JUMP

EXIT



The “Route” designation shown above is for example only. Labels and IDs may be customized to record user-specific categories such as Teller, Machine, Customer, Operator, etc. see *Customizing Labels and ID Fields*.

Enter Label information through the numeric keypad and select **ENTER** to record and return to a Batch Waiting condition. Repeat this process to enter information for additional Label prompts. Select **JUMP** to skip to the end of a data entry sequence (or to ID if enabled).

Entering ID Information

Select **ID** to enter ID information. The following screen is displayed:



The screenshot shows a screen with the title "TELLER (ID)" in the upper right corner. Below the title, there are three buttons: "BACK", "HELP", and "EXIT". The "BACK" button is on the left, and the "HELP" and "EXIT" buttons are stacked vertically on the right.



The “Teller” designation shown on the previous page is for example only. Labels and IDs may be customized to record user-specific categories such as Teller, Machine, Customer, Operator, etc.

Enter ID information through the numeric keypad and select **ENTER** to record and move to the next screen, or return to a Batch Waiting condition. The ID prompt may not be skipped.

Entering Declared Balance Information

When prompted for declared balances for both Batches and Sub-Batches, enter data through the numeric keypad and select **ENTER** twice to record and return to a Batch Waiting condition. To correct and re-enter Declared Balance information not yet recorded, select **CLEAR**.

When entering values for Batch Declared Balance, Sub-Batch Declared Balance and Miscellaneous Media, **ENTER** works like a calculator. Entering a positive value, followed by the **ENTER** key will add the value to previously recorded values. Entering a value, followed by the – (minus) key will deduct the value from the previously recorded values. When the entered value is correct, press the **ENTER** key a second time to record the new value and leave the screen.

Touch Panel displays for entering declared balances and other values are similar to the one shown below:

A touch panel display for entering declared balances. It features a large dollar sign (\$) in the top left and a large ".00" in the top right. The text "BAT DEC BAL" is centered in the middle. On the left side, there is a rectangular button with a minus sign (-). On the right side, there are three buttons: "HELP" at the top, and "JUMP" and "EXIT" stacked vertically below it.

Correcting Declared Balance Information

After Declared Batch or Sub-Batch Balance information is entered, it will be added to any previously recorded balance values. To subtract from balance values, enter the difference through the numeric keypad and press the – (minus) key on the left side of the touch panel display. The adjusted balance value will now be displayed. Press **ENTER** to record and return to a Batch Waiting condition.

Entering Miscellaneous Media Information

When prompted for miscellaneous media information (currency, checks, miscellaneous), enter data through the numeric keypad and press **ENTER** twice to record and return to a Batch Waiting condition. Select **CLEAR** to correct and re-enter numeric values not yet recorded. The Touch Panel display appears similar to the following:

A touch panel display for entering miscellaneous media information. It features a large dollar sign (\$) in the top left and a large "500.00" in the top right. The text "CURRENCY" is centered in the middle. On the left side, there is a rectangular button with a minus sign (-). On the right side, there are four buttons arranged in a 2x2 grid: "BACK" and "HELP" in the top row, and "JUMP" and "EXIT" in the bottom row.

Using the Verify Function

Use the Verify function to perform sorting and counting without adding to Sub-Batch, Batch, Day or ID totals. The Verify process will add verified coin totals to bag totals.

To use Verify, the JetSort must actively be sorting coin or be at a Batch Ended condition. Verify function will not work in a Batch Waiting condition. In a Batch Ended condition, select **VERIFY** then sort coin. Let the machine time-out or press the red **STOP** key. Return to the Batch Ended condition by selecting **VERIFY**.

Ending a Batch or Sub-Batch

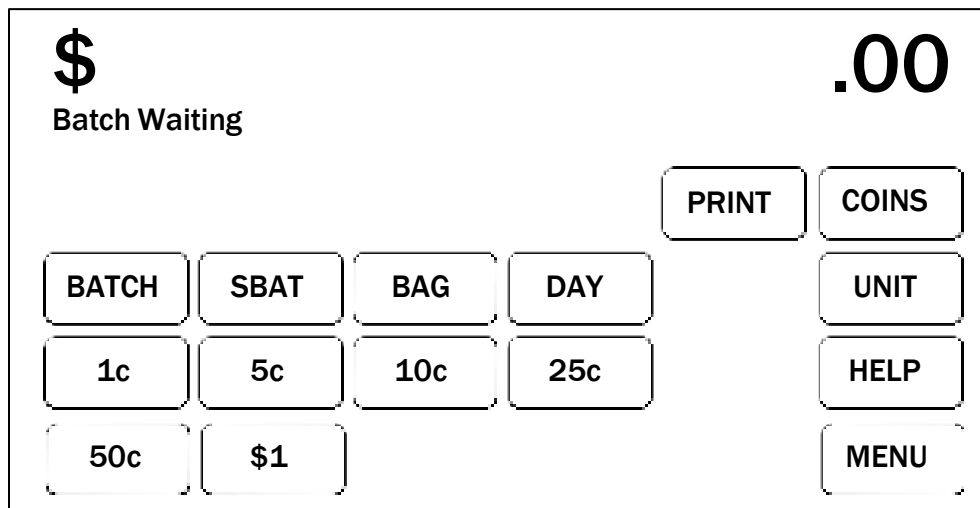
Ending Batches and Sub-Batches varies depending on whether the END SUBBAT function is set at automatic (AUTO) or required (REQ'D) in the ENABLE FUNCTIONS display. For more information, see *Enable Keys*.

With the END SUBBAT function set for AUTO, a Sub-Batch is ended by pressing the **START S/BAT** key. This automatically ends the current Sub-Batch and starts a new one. Selecting **END** once simultaneously ends all Sub-Batches and ends the current Batch. The JetSort is shipped with the END SUBBAT function set to AUTO as the default setting.

With the END SUBBAT function set for REQ'D, a Sub-Batch is ended only when the **END** key is pressed. All coin sorted after beginning a Sub-Batch is counted toward the current Sub-Batch until the **END** key is pressed. Select **END** once to end the current Sub-Batch and press it twice to end the current Batch.

Information Retrieval

In a Batch Ended condition, the Touch Panel display is as shown below:




JetSort accumulates and reports information in several categories. Information about these categories may be retrieved by pressing the corresponding key on the Touch Panel. Touch Panel keys display the following information:


Feature	Description
BATCH	The total coin value of the current Batch.
SBAT	The total coin value for the current Sub-Batch.
BAG	The total accumulated value for all bags. Pressing the BAG key again will display the RELATIVE BAG/BOX AMOUNTS screen, a graphic presentation of the percentage of the bag filled for each of six coin denominations (1¢ through \$1). Press the BAG key followed by a coin denomination key to review individual coin amounts.
DAY	The total accumulated value of all sorted coins plus other media entered since the last time DAY totals was cleared. See display on next page.

*** * RELATIVE BAG AMOUNTS * ***


1c




5c




10c




25c



50c



\$1



HELP

EXIT

\$

BATCH ENDED

950.00

BATCH

SBAT

BAG

DAY

1c

5c

10c

25c

50c

\$1


PRINT

COINS

UNIT

HELP

MENU

Feature	Description
ID	ID totals are displayed through the DAY key. If JetSort is equipped with ID software, the DAY key will change to ID when pressed. IDs are displayed individually, shown on the DAY key as ID (#). Additional ID numbers may entered through the numeric keypad, followed by the ENTER key, to display day totals for individual IDs. Entering ID 0 will display Day totals for all 150 JetSort IDs. When printing reports, ID 00 will print breakdowns of each individual ID (0 - 150). ID 0 will print combined day total for all IDs
PRINT	Prints a report of the current Batch or Sub-Batch (depending on setup features). For more information, see <i>Using a Printer</i> .
	 PRINT is displayed only when JetSort is connected to a compatible printer and the printer has been enabled (<i>OPERATIONS/Printer Format Setup</i>).
TOTAL	Displays total value of coin counted, plus receipts. Press the BATCH or SBAT key to display totals for current Batch or Sub-Batch. Press the TOTAL key again to display RCPTS (currency values entered via numeric keypad) and COINS (total number of coins counted).
UNIT	Alternates between display of total coin value and number of units sorted.
EVEN/OVER/ SHORT	JetSort will display the difference between coin/currency total and Batch Declared Balance or Sub-Batch Declared Balance, along with Even, Over or Short status, after ending a Batch.
DENOMINATION KEYS (1¢ - \$1)	Displays total value or number of units sorted of each of six coin denominations.

Information Retrieval for Batches, Sub-Batches, Bags and Days

Press **BATCH**, **SBAT**, **BAG** and **DAY** to display day totals for these categories. Press **BATCH**, **SBAT**, **BAG** and **DAY** in combination with the 1¢ - \$1 (denomination) to display denomination bag totals for each category. Pressing **TOTAL** will alternate between COINS, RCPTS and TOTAL displays for each category. Alternating displays will not work if a coin denomination key is selected. Select **SBAT**, **BATCH**, **DAY** or **TOTAL** to deselect a denomination key.

<div> <div>\$</div> <div>BATCH ENDED</div> </div>				<div>250.00</div>	
				PRINT	COINS
BATCH	SBAT	BAG	DAY	UNIT	
1c	5c	10c	25c	HELP	
50c	\$1			MENU	

Information Retrieval for Individual IDs

If JetSort is equipped with ID software, totals for individual or collective IDs may be displayed. ID totals are displayed through the **DAY** key. The **DAY** key will switch to ID when pressed. See display below:

<div> <div>\$</div> <div>Batch Ended CLEAR DAY TOTAL?</div> </div>				<div>1250.00</div>	
				PRINT	COINS
BATCH	SBAT	BAG	ID 1	UNIT	
1c	5c	10c	25c	HELP	
50c	\$1			MENU	

To display totals for individual IDs, the JetSort must be in a Batch Ended condition. To display individual ID totals, select **DAY/ID**, enter the desired ID number and press **ENTER**. The ID entered id will display on the **DAY/ID** key and ID totals will display in the upper right hand corner of the Touch Panel display. Press additional keys to display Batch, Sub-Batch, Denomination totals, Unit totals and other information as described on the previous page.

Clearing Counts and Totals

JetSort tracks individual coin bag counts and day counts, independent of any Batch or Sub-Batch data stored. These features obtain grand totals for individual coin denominations and total coin sorted and counted for any period desired. Bag and day counts accumulate until a bag limit is reached or counts are cleared manually by an operator.

JetSort allows clearing of bags and day totals when the individual bag stop limits have been reached or at any time before they reach their limits. It also allows all bags to be cleared at once.

Clearing Individual Bag Counts

When a bag has reached its bag stop limit, the sorter stops and a limit message flashes on the display, showing the denomination for which the limit has been reached. The denomination count will appear in the upper right hand corner. See display below:

\$				10,000	
Batch Waiting LIMIT 10c					
BATCH		SBAT	BAG	DAY	PRINT
1c		5c	10c	25c	COINS
50c		\$1			UNIT
					HELP
					MENU

To clear the bag count, select **CLEAR** once. The JetSort displays the following prompt: *Clear this Bag/Box?* Select **CLEAR** again to clear bag count and return to a Batch Waiting condition. Press **CONT** to sort remaining coins. The **BAG** and the **1¢ - \$1** (individual denomination) keys must be selected to clear individual bag counts.

This method may also be used to clear bag counts before a bag has reached its stop limit. To clear an individual bag count, select **BAG** and the **1¢ - \$1** (denomination) key of the bag you to be cleared followed by **CLEAR**. The JetSort displays the following prompt: *Clear this Bag/Box?* Select **CLEAR** again to clear individual bag count.

<div> <div>\$</div> <div>1,000.00</div> </div>			
<div>Batch Ended</div> <div>CLEAR THIS BAG/BOX?</div>			
<div> <div>PRINT</div> <div>COINS</div> </div>			
BATCH	SBAT	BAG	DAY
1c	5c	10c	25c
50c	\$1		
<div>UNIT</div>			
<div>HELP</div>			
<div>MENU</div>			

To clear all bag counts, select **BAG**, followed by **CLEAR**. The JetSort will display the following prompt: “Clear All Bags/Boxes?” Press the **CLEAR** again to clear all bag counts.

Screen displays, when clearing all Bag Counts, appear similar to the screen shown below:

<div> <div>\$</div> <div>400.00</div> </div>			
<div>Batch Ended</div> <div>CLEAR ALL BAGS/BOXES?</div>			
<div> <div>PRINT</div> <div>COINS</div> </div>			
BATCH	SBAT	BAG	DAY
1c	5c	10c	25c
50c	\$1		
<div>UNIT</div>			
<div>HELP</div>			
<div>MENU</div>			

Clearing Day Counts

To clear a day count, begin from a Batch Ended condition. Press the **DAY** followed by the **CLEAR**. The JetSort will display the following prompt: “Clear Day Totals?” Press **CLEAR** again to clear all Day counts.

Clearing ID Counts

To clear an ID count, begin from a Batch Ended condition. Press **DAY** to display individual IDs. Enter an ID number through the numeric keypad, followed by **ENTER**.

Pressing **CLEAR** will display a “Clear Day Total?” prompt. Press **CLEAR** again to clear an individual ID count. Clear Day Total displays appear similar to the one shown below:

\$				1250.00	
Batch Ended					
CLEAR DAY TOTAL?					
BATCH	SBAT	BAG	ID 1	PRINT	COINS
1c	5c	10c	25c	UNIT	
50c	\$1			HELP	
				MENU	

Display and clear additional IDs by entering the ID number on the numeric key pad, followed by **ENTER**. The JetSort will display day totals for each ID entered. Clear additional IDs by pressing **CLEAR**. The JetSort will display the following prompt: “Clear Day Totals?” Press **CLEAR** again to clear additional ID totals.

Clearing All JetSort ID Counts

To clear all 150 JetSort IDs, enter ID 0 and press **ENTER**. The JetSort will display day totals for all 150 IDs. Press **CLEAR** to clear all ID totals. The JetSort will display the following prompt: “Clear All ID Day Totals?” Press **CLEAR** again to clear all JetSort IDs.

Preserving Totals Information

If after **CLEAR** is pressed the first time and the “Clear Totals” prompt is received, preserve recorded totals by pressing the **BATCH** key before pressing **CLEAR** again. This will save recorded Bag, Day or ID totals and return to a Batch Ended condition.

Screen displays when clearing Day and ID counts appear similar to the screen shown on the next page:

\$				350.00	
Batch Ended CLEAR DAY TOTALS?					
BATCH		SBAT	BAG	DAY	PRINT
1c		5c	10c	25c	COINS
50c		\$1			UNIT
					HELP
					MENU

Programmable Jet Stops (PJS)

JetSort is designed to set limits (stop limits) for the number of coins fed into any denomination bag. PROGRAMMABLE JET STOPS (PJS) limits can be set in either piece or value counts. These stop limits can be entered and stored in the JetSort memory through the PJS menu.

JetSort is designed with three bag stop limits built in — **FULL** (full federal bag limits), **HALF** (half federal bag limits), and **NONE** (no limits). PJS File numbers 01 and 02 are preset to FULL and HALF federal bag limits and cannot be changed in permanent memory.

Individual stop limits may be changed while processing coin and will be used until new stop limits are set.

As many as 23 (03-25) individual PJS settings may be stored in the JetSort.

Retrieving PJS Files

From a Batch Ended condition, press **MENU** to display the OPTION MENU shown on the next page:

*** * OPTION MENU * ***

Batch Ended:
SELECT FUNCTION:

PJS

DATA

HELP

EXIT

Then, press **PJS** to display the PJS menu shown below:

**BATCH ENDED
PROGRAMMABLE JET STOPS**

2,500

PJS HALF FILE: 2

GET

SAVE

INFIN

PRINT

UNIT

1c

5c

10c

25c

HELP

50c

\$1

EXIT

Press **GET** to retrieve a previously stored PJS setting. Pressing **GET** prompts for a PJS file number which must be entered through the numeric key pad. Press **ENTER** to record the entry. See screen on the next page:

*** * PJS FILE RECALL * ***

Enter PJS File number to recall:

HELP

EXIT

It may be useful to list stored PJS file numbers on a separate sheet of paper for ease of reference.

A list of PJS file numbers and their stop limits may be printed by pressing **PRINT** from the PJS screen.

BATCH ENDED
PROGRAMMABLE JET STOPS

2,500

PJS HALF FILE: 2

GET		SAVE	INFIN	PRINT	UNIT
1c	5c	10c	25c		HELP
50c	\$1				EXIT

Creating New PJS Files

Enter stop limits for individual coin denominations by selecting coin denomination. Stop limit levels are entered through the numeric keypad and recorded by pressing **ENTER**. Press **INFIN** to indicate no stop limits for a particular coin denomination. Repeat this process for each denomination (1¢ - \$1).

Saving PJS Files

To save PJS settings, press **SAVE**. Pressing **SAVE** prompts for a two-digit PJS file number which you must enter through the numeric keypad and press **ENTER** to record.

*** * PJS FILE SAVE * ***

Enter PJS File number to save to:

HELP

EXIT

If a previously stored PJS file number has been entered, the screen will display the following prompt: “WARNING: File already exists, Replace?” Press **ENTER** again to overwrite the previous code. Press the **CLEAR** key to preserve previously recorded PJS file. PJS file numbers 01 and 02 are protected from overwrite.

Initializing PJS Files

All previously stored PJS files (except 01 and 02) may be erased by initializing the JetSort PJS files when a turn it on. To initialize PJS files, press and hold down the **<END>** key while turning on the JetSort.

Using a Printer

Either of Cummins Allison printers, the IDP562 RSL or IDP3535 (high speed), are recommended for use with JetSort. However, for them to work properly together, both the printer and JetSort must be initialized to the same baud rate and parity. Contact the local branch office for proper initialization instructions.

JetSort will also work with other printers provided that they are 40 column serial printers that have the appropriate cabling and are initialized properly. Contact the local branch office for details.

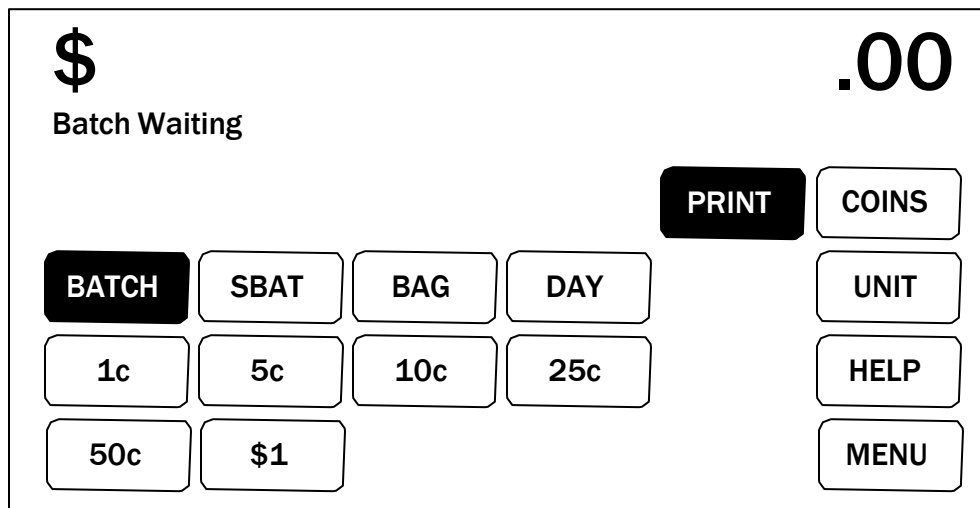
When either a Citizen IDP562 RSL or an IDP3535 serial printer are used, a number of fields are printed in red. These include: Date, Label (A-D), Grand Total and Declared Balance Variances.

Printing Reports

JetSort can generate a number of printed reports for Batch, Sub-Batch, Bag totals, Day totals, and for Individual and Collective IDs.

From a Batch Waiting condition, print Batch, Sub-Batch, Bag, Day and ID reports for the currently active Batch or Sub-Batch. Press the **BATCH**, **SBAT**, **BAG** or **DAY** key followed by the **PRINT** key to generate reports. Other IDs cannot be displayed or printed from a Batch Waiting condition. Only multiple IDs may be displayed or printed from a Batch Ended condition.

When printing reports, ID 00 will print breakdowns of each individual ID (0 - 150). ID 0 will print combined day total for all IDs.



Reports are generated automatically or by operator demand depending on how the PRINTER FORMAT SETUP functions are configured. For more information, see *Printer Format Setup*.

If the WHEN function in PRINTER FORMAT SETUP is set to DEMND, **PRINT** must be pressed to generate reports.

IF the WHEN function in PRINTER FORMAT SETUP is set to AUTO, Batch and Sub-Batch reports will be generated automatically whenever a Batch or Sub-Batch is ended.

Sub-Batch, Batch, Bag and Day Total reports appear similar to those shown below:

SUB-BATCH REPORT			
DATE:		02-14-95	
AUDIT:	0003-0001-00		
B:	CUSTOMER		
C:	MACHINE		
D:	BAG		
ID:	PRODUCT	01	
COIN		UNIT	VALUE
0.01		14	0.14
0.05		43	2.15
0.10		23	2.30
0.25		47	11.75
0.50		0	0.00
COIN TOT.		127	16.34
CURRENCY			25.00
CHECKS			100.00
MISC.			0.00
TOTAL RECEIPTS		
GRAND TOTAL			141.34
DECLARED BALANCE -			141.34
EVEN			- - - -

BATCH REPORT			
DATE:		02-14-95	
AUDIT:	0003-0001-00		
A:	ROUTE		
B:	CUSTOMER		
ID:	PRODUCT	01	
COIN		UNIT	VALUE
0.01		14	0.14
0.05		43	2.15
0.10		23	2.30
0.25		47	11.75
0.50		0	0.00
COIN TOT.		127	16.34
CURRENCY			25.00
CHECKS			100.00
MISC.			0.00
TOTAL RECEIPTS		
GRAND TOTAL			141.34
DECLARED BALANCE -			141.34
EVEN			- - - -

BAG TOTAL REPORT		
COIN	UNIT	VALUE
0.01	14	0.14
0.05	43	2.15
0.10	23	2.30
0.25	47	11.75
0.50	0	0.00
TOTAL	127	16.34
	

DAY TOTAL REPORT			
DATE:		02-14-95	
AUDIT:	0003-0001-00		
ID:	PRODUCT	0	
COIN		UNIT	VALUE
0.01		14	0.14
0.05		43	2.15
0.10		23	2.30
0.25		47	11.75
0.50		0	0.00
COIN TOT.		127	16.34
CURRENCY			25.00
CHECKS			100.00
MISC.			0.00
TOTAL RECEIPTS		
GRAND TOTAL			141.34

Printing Labels Information

Labels appear in specific JetSort reports listed below:

- **Label A** – Batch label. Appears in Batch print reports only.
- **Label B** – Batch label. Appears in Batch and Sub-Batch print reports.
- **Label C** – Sub-Batch label. Appears in Sub-Batch print reports only.
- **Label D** – Sub-Batch label. Appears in Sub-Batch print reports only.

Print Modes

JetSort reports generate data depending on how JetSort features are configured. Actual appearance of reports may differ from that described here.

JetSort is designed to generate reports in four different formats or modes.

Feature	Description
Print Mode 1	Shows Date, Audit #, Batch, Sub-Batch Codes, Coins, Currency, Checks and Miscellaneous Media totals, together with Declared Balance (if initialized).
Print Mode 2	Shows everything in Print Mode 1 together with a breakout of individual coin and currency totals if a currency counter interface is installed.
Print Mode 3	Shows Audit #, Batch, Sub-Batch code and total money processed.
Print Mode 4	Shows money processed totals.

The Print Mode set at the time the machine was initialized is the default mode. If you wish to change report formats, see *Printer Format Setup* or contact the local Cummins Allison branch office.

Setup

Programming and Storing JetSort® Feature Settings

JetSort is designed to provide a high level of user-programmable features to make coin counting and sorting tasks as easy and automated as possible. This section addresses these features and explains how to set up JetSort features to address specific coin sorting and counting requirements.

Many JetSort features are either on (enabled) or off (disabled). Pressing these keys will enable them (indicated by a darkened key) or disable them (indicated by a lightened key), as shown in the sample screen below:

*** ENABLE FUNCTIONS ***

END: SUBBAT	REQ'D	AUTO	
DISPLAY: AT END	TOTAL	ZERO	
DATE:	OFF	ON	HELP
DEFAULT LIMITS:	FULL	HALF	NONE
			EXIT

To access and set up JetSort features, begin from a Batch Ended condition. From a Batch Ended condition, press and hold the red **STOP** key until the **SELECT SPECIAL MODE** screen is displayed.



Do not enter Diagnostic mode without first contacting the local Cummins Allison office.

*** * SELECT SPECIAL MODE * ***

BATCH ENDED

*

*

ENTER SETUP MODE

ENTER DIAGNOSTIC MODE

HELP

EXIT

Select **ENTER SETUP MODE** to access the JetSort SETUP MAIN MENU options shown below:

*** * SET-UP MAIN MENU * ***

*

*

*

*

*

USER DEFAULTS

ENABLE FUNCTIONS

DATA ENTRY SELECTIONS

PORT SETUP

PERIPHERAL FORMATS

HELP

MORE

EXIT

Pressing the keys described below, will display JetSort function screens and setup options.

User Defaults

User Defaults saves current user settings as defaults or retrieve previously saved settings to be used as default settings. This eliminates the need to reconfigure JetSort in the event of a power surge, power outage or other interruption. The Default Setting can be revised at any time. The SET USER DEFAULTS screen is shown on the next page:



Choosing **SAVE CURRENT AS USER DEFAULTS** also overwrites all previously set up JetSort functions.

\$

Batch Ended
CLEAR DAY TOTALS?

350.00

BATCH

SBAT

BAG

DAY

1c

5c

10c

25c

50c

\$1

PRINT

COINS

UNIT

HELP

MENU

Enable Functions

Enable Functions sets up the following features:

Feature	Description
Sleep Mode	When activated, the SLEEP MODE feature allows the JetSort to be in a stand-by mode. If the JetSort is not used for 20 minutes or longer, the screen on the JetSort will appear blank. To resume using the JetSort, simply press the RED key. The touch screen will re-appear.
End Sub-Batch	<p>Set for Required (REQ'D) or Automatic (AUTO). Set on Required (REQ'D), press the END key to end a Sub-Batch. Press the END key a second time to end a Batch.</p> <p>Set on AUTO, press the START S/BAT key to end the current Sub-Batch and begin a new one. Press the END key to end the current Sub-Batch. Press the END key again to end the current Batch.</p>
Display at End	After ending a Batch or Sub-Batch, JetSort will display Batch and Sub-Batch totals, or the JetSort display will display zero. (JetSort must be in BATCH ENDED condition).
Date	Enables or disables DATE entry function. When changing the DATE function, new setting will take effect only after clearing out day totals.
Default Limits	Sets bag stop default limits for FULL, HALF or NONE.

The ENABLE FUNCTIONS screen is shown below:

* * ENABLE FUNCTIONS * *				
SLEEP: MODE	OFF	ON		
END: SUBBAT	REQ'D	AUTO		
DISPLAY: AT END	TOTAL	ZERO		
DATE	OFF	ON	HELP	
DEFAULT: LIMITS	FULL	HALF	NONE	EXIT

Data Entry Selections

Data Entry Selections allow access to LABELS, RECEIPTS, and OTHER prompt setup displays.



The number of Data Entry Selections available is based on the software option kit installed.

Press **SELECT LABELS** to set up prompts for labels A, B, C, D.

Press **SELECT RECEIPTS** to set up prompts for Currency, Checks/Chips and Miscellaneous receipts.

Press **SELECT OTHER** to set up prompts for ID, Batch Declared Balances and Sub- Batch Declared Balances.

The DATA ENTRY SELECTIONS screen is shown below:

* * DATA ENTRY SELECTIONS * *	
*	SELECT LABELS
*	SELECT RECEIPTS
*	SELECT OTHER
HELP	
EXIT	

The following settings in the LABELS, RECEIPTS and OTHER displays will produce the JetSort response described:

Feature	Description
OFF	No prompt for data will be displayed. Data cannot be entered in this mode.
AUTO	Operator will be automatically prompted for data entry. Operator may press the JUMP key from data entry screen to go to end of data sequence or press the ENTER key without entering any data to proceed to next data prompt.
DEMND	JetSort function will only be prompted upon operator demand. From a Batch Sorting or Batch Waiting condition, press the DATA key for data entry display.

The LABEL SETUP, RECEIPTS SETUP and OTHER DATA ITEMS SETUP screens are shown below:

*** * LABEL SETUP * ***

A:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	<input type="button" value="CUSTM"/>	
B:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	<input type="button" value="CUSTM"/>	
C:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	<input type="button" value="CUSTM"/>	<input type="button" value="HELP"/>
D:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	<input type="button" value="CUSTM"/>	<input type="button" value="EXIT"/>

*** * RECEIPTS SETUP * ***

CURRENCY:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	
CHK/CP:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	
MISC:	<input type="button" value="OFF"/>	<input type="button" value="AUTO"/>	<input type="button" value="DEMND"/>	
				<input type="button" value="HELP"/>
				<input type="button" value="EXIT"/>

* * OTHER DATA ITEMS SETUP * *				
ID:	OFF	AUTO	CUSTM	
DBALB:	OFF	AUTO	DEMND	
DBALSB:	OFF	AUTO	DEMND	HELP
BILCNT:	OFF	AUTO	DEMND	EXIT

Customizing Labels and ID Fields

Begin from a Batch Ended condition to enter Label and ID field names. Label and ID fields can be customized with operator-defined names to track Routes, Products, Tellers, Machines, etc. Labels can be customized with names containing up to 12 alpha/numeric characters. IDs can be customized with names containing up to 12 numeric characters.

To customize a Label or ID field, press **CUSTM** in the LABEL SETUP (for labels) or the OTHER DATA ITEMS SETUP (for IDs) display. The following screen will be displayed:

* * DATA ENTRY SELECTIONS * *	
*	SELECT LABELS
*	SELECT RECEIPTS
*	SELECT OTHER
HELP	
EXIT	

Enter up to 12 alpha/numeric characters for each Label field (A-D) and for ID fields.

Press **SHIFT** to alternate between upper and lower case alpha characters. Press **SYMBOL** to select from 25 symbols which can be used in field names.

Press **CLEAR** to clear a mistake in a field name and re-enter field name. Press **ENTER** to enter field names and return to Label/ID Setup display. Type names of additional labels as described above.

After names for all labels are finished, press **EXIT** to return to the Data Entry Menu. Press **EXIT** again to return to the Main Menu.



Press **SELECT USER DEFAULTS** and **SAVE CURRENT AS USER DEFAULTS** to save Label and ID field names. If **EXIT** is selected without saving current user defaults, JetSort defaults to the standard Label and ID field names in permanent memory.

Port Setup

Port Setup allows for data transmission set up from JetSort port to four peripherals remote display (RMT.D), printer (PRNTR), computer (COMM) and Bar Code Reader (BCR). Select data transmission functions including baud rate, stop bits and parity.

* * PORT 1 SETUP * *					
FUNCTION:	OFF	RMT.D	PRNTR	COMM	
	JTSCN	JTCNT			
BAUD:	600	1200	2400	4800	9600
DATA:	7	8		BACK	HELP
PARITY:	ODD	EVEN	NONE	NEXT	EXIT

* * PORT 2 SETUP * *					
FUNCTION:	OFF		PRNTR		BCR
	JTSCN		JTCNT		
BAUD:	600	1200	2400	4800	9600
DATA:	7	8		BACK	HELP
PARITY:	ODD	EVEN	NONE	NEXT	EXIT



Ports three through eight can connect printer, J/SCAN, and J/COUNT.

Peripheral Format

Peripheral Format allows for setup of Computer Interface and Printer Format Setup.

*** SET PERIPHERAL FORMATS ***

*

COMPUTER INTERFACE

*

PRINTER FORMAT

*

BAR CODE READER

HELP

EXIT

Computer Interface

*** COMPUTER INTERFACE SETUP ***

EMULAT:

36/2

36/1

3100

5000

PROTCL:

IMMED

POLL

ACK:

OFF

ON

LIMREP:

OFF

ON

MODE:

NORML

TOTAL

Feature	Description												
Emulation Key (EMULAT)	The universal JetSort has the software capability to emulate or copy a software code. As an example, if the user has a JetSort 3601 but the interface was written for a JetSort 5000 Series machine, simply press the 5000 key. The customer does not need to re-write their interface.												
Emulation Reference	<table> <tr> <td>Key</td><td>Communication protocol</td></tr> <tr> <td>36/2</td><td>022-1752-00 (newest version)</td></tr> <tr> <td>36/1</td><td>022-7128-00</td></tr> <tr> <td>31/2</td><td>022-7111-00</td></tr> <tr> <td>31/1</td><td>022-7089-00</td></tr> <tr> <td>5000</td><td>022-7110-00</td></tr> </table>	Key	Communication protocol	36/2	022-1752-00 (newest version)	36/1	022-7128-00	31/2	022-7111-00	31/1	022-7089-00	5000	022-7110-00
Key	Communication protocol												
36/2	022-1752-00 (newest version)												
36/1	022-7128-00												
31/2	022-7111-00												
31/1	022-7089-00												
5000	022-7110-00												
Protocol Key (PROTCL)	<p>There are two different versions available when transmitting data from the JetSort to a computer. They are “immediate” or “polled.”</p> <p>Immediate: The JetSort will initiate all transmissions as soon as a report is generated either by keystroke or by a bag limit being reached. The report will be sent through the communication port and a response from the computer is expected. If JetSort does not get a response from the computer, a COMM LINK ERROR will appear.</p> <p>Polled: The receiving computer will initiate all transmissions. The computer must poll the JetSort for data. If any report was generated since the last poll, the JetSort will immediately send out the next report stored in memory.</p>												
Acknowledge Key (ACK)	JetSort has the option of receiving a “hand-shake” signal from the receiving device (computer). To receive an acknowledgment, turn the ACK key to ON.												
Limit Report (LIMREP)	If a bag limit is reached on the JetSort, a message can be sent to the computer. To activate, turn the LIMREP key to ON.												
MODE	The data from the JetSort is sent to the computer in the form of a report. There are two different modes in which the JetSort can be programmed. If the NORML key is pressed, the normal/typical report will be generated. If the TOTAL key is pressed, only the total amount of the batch will be transmitted.												

Printer Format Setup

Printer Format Setup including report print mode (MODE), automatic (AUTO) or on demand (DEMND) printing after Batches and Sub-Batches, ID Breakdown (ID BRK), color printing (COLOR) and bill count (BILCNT) which allows the total (TOTAL) amount of processed currency print on the report or have all (ALL) processed currency print on the report. If RED 1 is enabled, the grand total and IDs will print in red. The PRINTER FORMAT SETUP display is shown on the next page:

* * PRINTER FORMAT SETUP * *					
MODE:	1	2	3	4	WIDE
WHEN:	AUTO	DEMND			
ID BRK:	OFF	ON			HELP
COLOR:	OFF	RED 1	RED 2		EXIT
BILCNT:	TOTAL	ALL			

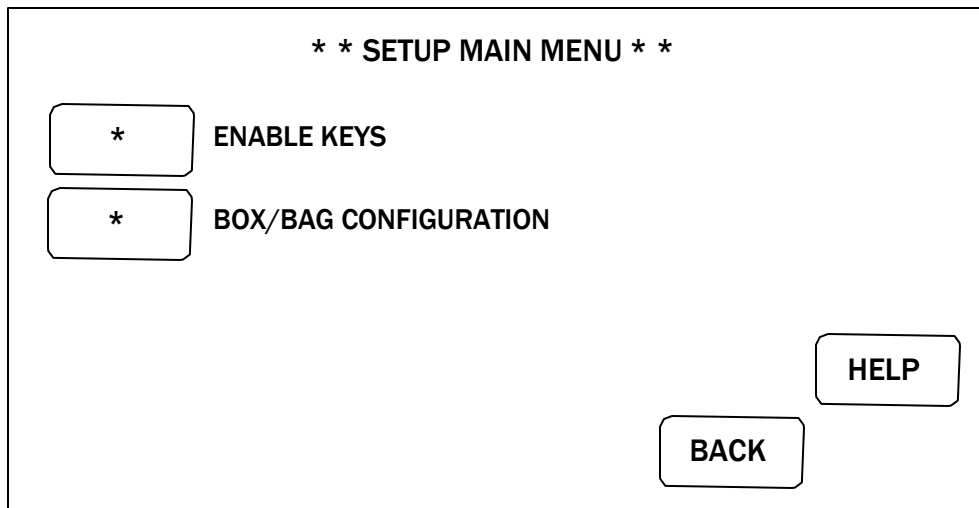
Bar Code Reader Type

If activated, a Bar Code Scanner Gun or Wand can be connected to the JetSort. The BAR CODE READER TYPE display is shown below:

* * BAR CODE READER TYPE * *			
BCR TYPE:	WAND	SCANR	
AUTO ENTER:	OFF	ON	

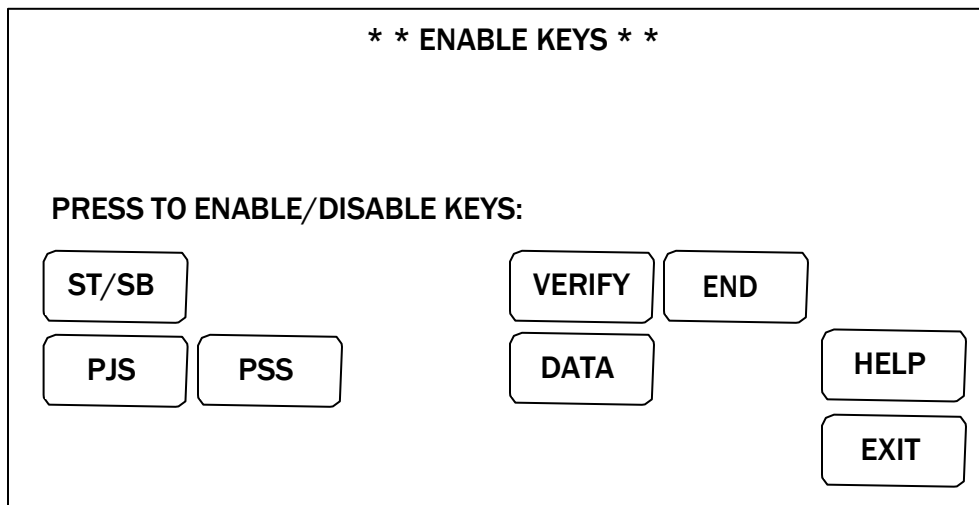
Setup Main Menu

Press **MORE** from the SETUP MAIN MENU screen to access additional setup options. See display shown below:



Enable Keys

Enable Keys enable/disable JetSort features/keys including Start Sub-Batch (START S/BAT) Verify (VERIFY), Programmable Jet Stops (PJS) and Data Entry (DATA) functions. The ENABLE KEYS display is shown below:



Box/Bag Configuration

Box/Bag Configuration configures JetSort for collecting coin with bags or boxes. When BAG is chosen for Machine Type, only bags may be chosen for coin collection. JetSort floor standing units must use the BAG configuration. The BOX/BAG CONFIGURATION display is shown on the next page:

**** BOX/BAG CONFIGURATION ****

MACHINE TYPE:

BAG

BOX

1c

BAG

5c

BAG

10c

BAG

25c

BAG

50c

BAG

\$1

BAG

HELP

EXIT

When BOX is chosen for Machine Type, choose either bags or boxes for coin collection. This feature applies to the JetSort Table Top unit only.

Coin Count Sensor Setup

Coin Count Sensor allows the user to disengage the sensor.

For example, if the 10c sensor is set to OFF and a dime is processed through the JetSort, the dime WILL sort but WILL NOT be counted or added to the total batch.

**** COIN COUNT SENSOR SETUP ****

SET STATUS FOR EACH COIN'S COUNT SENSOR ...

1c

OFF

5c

OFF

10c

OFF

25c

OFF

50c

OFF

\$1

OFF

HELP

EXIT

Reference

Table Error or Sensor Error

If a jam occurs while sorting coin, or if there is a sensor malfunction, the JetSort stops immediately, and the Touch Panel Display displays one of two error messages. If there is a jam that has stopped the table from rotating, a **TABLE ERROR** message appears. If a jam occurs at a sensor, a **SENSOR ERROR** message appears. The correction procedure is similar for both types of error.

Correcting Jams

The first step in correcting a **TABLE** or **SENSOR ERROR** is to remove the inspection tray and remove all loose coin from the sort disk area.

Next, press **CLEAR**. JetSort gives the option of verifying the count or continuing with coin processing. (If the table-jam message remains, contact the local Cummins Allison office.)

In the case of a sensor jam, the display describes exactly where it detects an obstruction. The obstruction may then be cleared **using a non-metallic tool**. It is important that a non-metallic tool be used so that the sensor is not damaged. If the sensor still detects an obstruction the JetSort will display a “[#]¢ **SENSOR BLOCK cont**” error message, indicating the sensor has not been cleared.

After the obstruction is removed, press **CLEAR** a second time.

Reconciling Accounts

After clearing a jam, either reconcile the counts or continue Batch or Sub-Batch processing. To reconcile the count at the time of the jam, empty the contents of all bags, together with any coin from inside the sort head into the tray and press **VERIFY**. Sort the coin (current transaction and the bag contents), then press the red **STOP** key. Press **VERIFY** again to end the reconciliation. The display screen now reflects the correct transaction total.

To continue Batch or Sub-Batch processing, press **CONT** to resume processing from where the jam occurred or press **END** to complete the Batch or Sub-Batch.

Daily Cleaning Procedures

Daily cleaning of JetSort machines is recommended to ensure maximum productivity and reliability.

Recommended Cleaning Materials



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: 30 ml of Simple Green per 240 ml of water. For material-safety-data sheets, see simplegreen.com.
- Microfiber towels. (Part number: 022-2223-00.)
- Vacuum cleaner. (In the United States: Order standard vacuum part number 022-1959-00 or heavy-duty vacuum part number 022-1308-00. Outside of the United States: Buy vacuum locally.)

Daily Cleaning



High-voltage levels may be present. Risk of electric shock.

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



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

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

If using Simple Green concentrate, dilute to: 30 ml of Simple Green per 240 ml of water.

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

Never spray cleaners directly on machine components.

Cleaning JetSort Sorting Chamber



Clean sort disk only as instructed. Do not attempt to remove oil coating on disk. Removing oil from disk negatively impacts performance and may negate disk warranty.

If disk cannot be cleaned with a clean, dry microfiber towel or cotton cloth, contact your Cummins Allison service representative for assistance.



Never wipe sort disk or pad, except as instructed in this document.

1. Remove coin tray to access the inside of the machine.
2. Remove any stray coins or other objects by hand.
3. Vacuum interior areas to remove accumulated dust or debris.
4. Raise and inspect sort disk.
5. Remove any debris by hand and clean disk if needed using dry microfiber towel or clean cotton cloth.

NOTICE

Sort head damage can result from using metallic brush. Use only soft, non-metallic brush as instructed by a Cummins Allison representative.

To prevent damage and to maintain coin-sorting function as designed, do not brush sort pad that rests on lower disk.

1. Lower sort disk and secure latch.









Correct: disk is secured



Incorrect: disk is not secured

2. Reinstall tray and secure in place.
3. Clean remaining exterior surfaces as needed with a Simple Green Safety Towel. If using Simple Green concentrate, dilute 1 part Simple Green with 8 parts water. Apply with microfiber towel.

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 personal injury. In this manual, notice indicates a situation which, if not avoided, could result in property damage.
	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.
	Highlights information that is necessary or useful to know prior to executing a procedure.
	Highlights information that is interesting or useful to know after completing a procedure.

Specifications

Model 3601 and 4600 Series

Models 3601 and 4600 Series											
Accuracy	99.995+%										
Denominations	1¢, 5¢, 10¢, 25¢, 50¢, \$1 Susan B. Anthony										
Pre-set limits	Full, half, none										
Power	115V, 60 Hz or 220V, 50 Hz										
Mixed speed	3,000 coins per minute Coin mix: 50% quarters; 33% dimes; 17% nickels										
Denomination speed	Dimes: 4,500 coins per minute Pennies: 3,800 coins per minute Nickels: 2,700 coins per minute Quarters: 2,000 coins per minute										
Tray capacity	<table> <tr> <td>Inspection tray</td><td>Lift tray</td></tr> <tr> <td>Dimes: 8,000 coins</td><td>Dimes: 12,500 coins</td></tr> <tr> <td>Pennies: 5,000 coins</td><td>Pennies: 9,000 coins</td></tr> <tr> <td>Nickels: 4,000 coins</td><td>Nickels: 5,000 coins</td></tr> <tr> <td>Quarters: 3,500 coins</td><td>Quarters: 5,000 coins</td></tr> </table>	Inspection tray	Lift tray	Dimes: 8,000 coins	Dimes: 12,500 coins	Pennies: 5,000 coins	Pennies: 9,000 coins	Nickels: 4,000 coins	Nickels: 5,000 coins	Quarters: 3,500 coins	Quarters: 5,000 coins
Inspection tray	Lift tray										
Dimes: 8,000 coins	Dimes: 12,500 coins										
Pennies: 5,000 coins	Pennies: 9,000 coins										
Nickels: 4,000 coins	Nickels: 5,000 coins										
Quarters: 3,500 coins	Quarters: 5,000 coins										

Model 3601

Models 3601 and 4600 Series	
Coin collection	6 boxes/bags; need to be ordered separately
Dimensions	18" H x 20" W x 20" D
Weight	150 lb.

4600 Series

Model 4600 Series	
Coin collection	6 bags/built-in stand
Dimensions	38" H x 21 -1/2" W x 21" D
Weight	125 lb.

6600 Series

Model 6600 Series	
Accuracy	99.995+%
Denominations	1¢, 5¢, 10¢, 25¢, 50¢, \$1 Susan B. Anthony
Pre-set limits	Full, half, none
Power	115V, 60 Hz or 220V, 50 Hz
Mixed speed	6,000 coins per minute Coin mix: 50% quarters; 33% dimes; 17% nickels
Denomination speed	Dimes: 10,000 coins per minute Pennies: 9,500 coins per minute Nickels: 6,000 coins per minute Quarters: 5,000 coins per minute
Tray capacity	<div>Lift tray</div> <div>Dimes: 12,500 coins</div> <div>Pennies: 9,000 coins</div> <div>Nickels: 5,000 coins</div> <div>Quarters: 5,000 coins</div> <div>Gravity tray</div> <div>Dimes: 10,000</div> <div>Quarters: 4,000</div>
Coin collection	6 bags/built-in stand
Dimensions	38" H x 26" W x 22" D
Weight	252 lb.

Machine Software

Model 3601; 4600 and 6600 Series

Kit	Description
1	Currency, ID, PJS, Data Entry Communications hardware/software, Remote Display software Bar Code software
2	Communications hardware/software
3	Currency, ID, PJS entry
4	Currency, ID, PJS entry, Remote Display software
7	Currency, ID, PJS, Data Entry, Communications hardware/software Remote Display software, Bar Code software, JetScan/JetCount software
8	Currency, ID, PJS, Data Entry, Communications hardware/software, Remote Display software, Bar Code software, CTOCS software
9	Currency, ID, PJS, Data Entry, Communications hardware/software, Remote Display software, JetCash software

Glossary

Term	Description			
Bag Limits	An industry standard established by the Federal Depository Bank pecifies coin bag fill quantities. They are:			
	Full bag limit:	COIN	FULL LIMIT	BAG VALUE
		\$.01	5,000 coins	\$50.00
		\$.05	4,000 coins	\$200.00
		\$.10	10,000 coins	\$1,000.00
		\$.25	4,000 coins	\$1,000.00
		\$.50	2,000 coins	\$1,000.00
		\$1	2,000 coins	\$2,000.00
	Half bag limit:	COIN	FULL LIMIT	BAG VALUE
		\$.01	2,500 coins	\$25.00
		\$.05	2,000 coins	\$100.00
		\$.10	5,000 coins	\$500.00
		\$.25	2,000 coins	\$500.00
		\$.50	1,000 coins	\$500.00
		\$1	1,000 coins	\$1,000.00
Batch	Money that is recorded as coming from one general source and processed as an overall group.			
BILCNT	Connects JetScan to JetSort when set to AUTO or DEMND.			
Checks Field	Entry field that allows the input of checks as part of monies received.			
CLEAR key	The key used to delete information from different areas of JetSort memory or to clear a screen if an error is made in entering information.			
CONT key	Restarts machine and continues counting from point where last stopped.			
Currency Field	Entry field that allows the input of currency note totals as part of monies received.			
Date Field	Entry field that makes it possible to track monies by date, normally entered on the keyboard as MM-DD-YY, then the ENTER key. Field can also be used to track other variables, for example, operators by shift. A maximum of 12 numbers may be entered.			
Day Total	Total monies received during a specific time frame, such as day, half day, etc.			
Declared Balance	Entry field that allows the operator to key in expected totals in order to compare them against actual monies received.			
END key	The key used to end a Batch or Sub-Batch.			

Term	Description
ENTER key	Allows entry of numeric values for miscellaneous media, i.e. currency, checks, etc.
ID	Entry field used to track information separated into individual segments (products, operators, etc.) Batches and Sub-Batches are run within this field. Batches and Sub-Batches can be cleared while their totals remain in memory under the ID code. Up to 125 fields can be accessed using numbers 1-125.
ID 0	The total of all ID totals entered for the day.
Label Field	<p>Entry fields for tracking information such as route, product, teller, machine, etc., by Batch and Sub-Batch of receipts. A maximum of 12 characters may be entered.</p> <p>Label A – Batch label. Appears in Batch print reports only.</p> <p>Label B – Batch label. Appears in Batch and Sub-Batch print reports.</p> <p>Label C – Sub-Batch label. Appears in Sub-Batch print reports only.</p> <p>Label D – Sub-Batch label. Appears in Sub-Batch print reports only.</p>
Misc Field	Entry field used to enter negotiable instruments such as food stamps, coupons, etc., as part of monies received.
Programmable Jet Stops (PJS)	A feature that allows an operator to program the machine to fill bags to a desired count (Stop Limit). Can be programmed on all denominations. Default setting is at Full Federal Bag Limits.
PJS key	Key that allows an operator to enter values for “Programmable Jet Stops.”
Sleep Mode	<p>When activated, the sleep mode feature allows the JetSort to be in a stand-by mode.</p> <p>If the JetSort is not used for 20 minutes or longer, the screen on the JetSort will appear blank. To resume using the JetSort, simply press the RED key. The touch screen will re-appear.</p>
START BATCH key	Key that starts the counting operation for Batches.
START S/BAT key	Key that starts a new Sub-Batch within a Batch.
STOP key	The key used to stop the machine at any point in the counting process. The STOP key can also be used to generate on-demand Day Total and ID print reports.
Sub-Batch	Monies processed from one or several sources and treated as subgroups within a Batch. Allows for more detailed tracking of proceeds within a Batch.
Verify	A JetSort function that allows coin to be counted without adding to or affecting Batch, Sub-Batch and Day totals.
Verify key	The key that turns the Verify function on and off.

Error Messages

Message	Description
Memory Default	Indicates JetSort has cleared all memory registers (except PJS registers 01 and 02) and has returned to factory defaults. This condition can be induced by holding down the red STOP key while turning on the JetSort.
PJS Memory Initialized	Indicates JetSort has cleared PJS memory registers (except 01 and 02). This condition can be induced by holding down the <END> key while turning on the Jet Sort.
EEPROM ERROR!!	Indicates JetSort has experienced a memory loss on startup. This may affect memory conditions and may result in loss of user defaults. Contact the Cummins Allison for additional information.
PJS Error Messages	ERROR: ENTRY IS BELOW MIN ALLOWED (10) The stop limit entered for a particular coin denomination is lower than the minimum of 10. Enter a stop limit of 10 or more.
	ERROR: ENTRY IS UNEVEN MULTIPLE OF COIN The stop limit entered for a particular coin denomination is an uneven multiple of the coin denomination. Example: \$100.35 stop limit for quarters. Enter a stop limit that is an even multiple of coin denomination.
	ERROR: ENTRY IS AT OR BELOW CURRENT BAG The stop limit entered for a particular coin denomination is at or below the current bag count. Enter a stop limit above the current bag count or clear all day totals and re-enter stop limit.
	ERROR: FILE DOES NOT EXIST The PJS file number requested through the PJS GET feature has not been previously recorded. GET a different PJS file or enter stop limits for new PJS file.
	ERROR: 1¢ (5¢,10¢, 25¢, 50¢, \$1) FILE BAG AT OR BELOW CURRENT The stop limit entered for a particular coin denomination is at or below the current bag count. Enter a stop limit above the current bag count or clear all day totals and re-enter stop limit.
	LIMIT 1¢ (5¢,10¢, 25¢, 50¢, \$1) JetSort has reached the denomination stop limit for a particular coin denomination. Clear bag or reset stop limit to resume processing.
	WARNING: FILE ALREADY EXISTS, REPLACE? The file number entered for a new PJS file has been used previously. Enter a different PJS file number or press ENTER key to overwrite previously recorded PJS file.
	ERROR: INVALID FILE NUMBER The file number entered for a new PJS file is invalid. JetSort features 25 individual PJS settings. Saves as many as 23 custom settings (file numbers 03-25). Settings 01 and 02 (full and half federal bag limits) may not be overwritten.

Message	Description
Additional Error Messages	ERROR: NEGATIVE NUMBER RESULT Value entered for correction of Declared Balance, Declared Sub- Balance or other miscellaneous media resulted in a negative number. Re-enter values.
	WAITING TO SEND DATA Communication error message. JetSort is waiting to send to the printer or other peripheral device. Wait for JetSort to finish processing data (indicated by removal of error message) and then proceed.
	HOLD – WAITING FOR COMM POLL Communication error message. JetSort data buffer is limited to one batch. JetSort is waiting for an external computer to poll the JetSort for Batch data and cannot process additional Batch data until polled for first Batch data. Wait for poll to take place (indicated by removal of error message) and then proceed.
	HOLD – WAITING FOR PRINTER Printer communication error message. JetSort is processing data and waiting to send data to the printer. Wait for JetSort to finish processing data and then proceed.
	COMM LINK ERROR Communication error message. JetSort is attempting to process data to be sent to external computer, but the computer is not responding. Check computer connections
	TRYING TO COMM Communication error message. JetSort is attempting to process data from first Batch, after subsequent Batch has been ended. JetSort will alert operator of Comm Link Error regarding first Batch and display Trying to Comm error along with time (in seconds) remaining until first Batch data is processed and Comm Link Error is cleared. After error message is cleared, JetSort will display first Batch totals.
	SENSOR ERROR Coin processing error message. JetSort senses coin defects, turns off motor and alerts user
	TABLE ERROR Coin processing error message. The JetSort senses that the table is not turning at proper operational speed. JetSort turns off motor and alerts user.
	1¢ (5¢,10¢, 25¢, 50¢, \$1) SENSOR BLOCK JetSort senses a coin defect or jam at the sensor for a particular coin denomination. JetSort turns off motor and alerts user.



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