



User's Guide

Part No. 111017 Rev. D

ZDATA-7200

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Operation Manual

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NOTICE -

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

FCC WARNING -

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Product Safety

This manual uses a variety of terms and symbols to ensure the safe operation of the product, help prevent hazards to yourself and others, and help prevent property damage. The following

describes terms, symbols, and meanings used in this manual. Before reading this manual, please familiarize yourself with the terms and symbols below.

Terms

WARNING Ignoring this cautionary note and handling the product improperly may result in death or serious injury.

CAUTION Ignoring this warning and handling the product improperly may result in injury or physical property damage.

Symbols

disassembled.)

 Δ The triangle indicates the presence of danger. Specific details of the danger are described in the triangle. (The symbol on the right indicates danger of electric shock.)

symbol on the right indicates the item should not be

right indicates danger of electric shock.)
This symbol indicates a prohibited action. Specific details of the prohibition are described in or near the symbol. (The







This symbol indicates a mandatory action. Specific details of the action are described in the symbol. (The symbol on the right indicates that the power cable must be unplugged.)

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Safety Considerations

/!\

READ THIS PAGE BEFORE INSTALLING OR USING THIS PRODUCT!

Do not remove the cover or attempt any repairs on this product. There is risk of electric shock.	(\mathbf{S})
Do not place heavy materials on the power cable. Do not bend or twist the power cab The cable may get damaged, causing fire or electric shock.	ole. ()
Do not use damaged cables or broken connector or power plugs. There is risk of fire or electric shock.	\oslash
Use only power voltages specified for this product. Improper voltages create a risk of fire or electric shock.	f 🚫
Securely plug the power cable into a power receptacle. Metal objects touching the power plug may cause fire, electric shock, or equipment malfunction.	
Hold the plug when unplugging the power cable. Do not pull on the power cable itsel or the cable may become damaged and cause fire or electric shock.	lf,
Be careful not to drop anything into any opening of the product. Never push anything into the openings. There is risk of fire or electric shock.	
In the event of any abnormality (such as smoke or odors), unplug the power cable immediately. There is risk of fire or electric shock.	
Do not install the product where water splashes are likely or in areas of high humidit. There is risk of fire or electric shock.	y. 🚫
Do not place drink or liquid containers or small metal objects on the product. These items may cause fire or electric shock if they spill or fall inside. Immediately unplug the power cable if liquids or metal objects are spilled on the product.	\odot
Do not use isopropyl alcohol around open flames or heat sources. Alcohol is highly flammable and creates a risk of fire or explosion.	

- Be careful when opening or closing covers. Do not take your hands off covers when opening or closing them. Falling covers may cause injury.
- Be careful when opening, closing, or moving covers. Take care not to hit your face, head, or hands with the open cover. You may be injured.
- Do not block the air ventilation holes of the product. Blocking the vents accumulates heat inside the cabinet and can lead to product failure, heat, or fire damage.
- Do not install the product on an unstable or inclined surface. The product may fall and cause damage or injury.

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DATA 7200

Caution Label

This product comes with a caution label attached as described below.



Operating Environment

Location

- Do not place the product in direct sunlight or near heating sources such as stoves or heaters.
- Do not place the product in a dusty or humid environment.
- Do not place the product under strong shock or vibration.
- Do not place the product in a strong magnetic or radio field, or near a television set or radio.
- Make sure that the vents are not blocked. Make sure that the installation location is well ventilated and that air can freely circulate around the product.
- Do not place the product where contact with chemicals is likely.

Space Required



inches (millimeters)

Dimensions and Weight

- 8.3 inches (210mm) W x 21.6 inches (550mm) D x 15.0 inches (380mm) H
- Less than 35.3 lb. (16 kg)

Temperature and Humidity

Make sure that the following temperature and humidity conditions are met :

- Ambient temperature: 41 to 104 degrees F (5 to 40 degrees C)
- Ambient humidity: 20% to 90% RH (relative humidity) no condensation.

Notes on the Operating Environment

When installing the product where the ambient humidity is 30% or less, it is recommended that you use a humidifier to raise the humidity to higher levels. Use an antistatic mat as necessary.

Power Connection

Power Line Conditions

Ensure that the power supply satisfies the following requirements:

- Voltage: 85 to 132 or 170 to 265 VAC (automatic voltage switching)
- Frequency: 47 to 63 Hz
- Power consumption: 250 VAC (Printing) or 80 VAC (Stand by)

If the power line is unstable, use a voltage regulator or similar device.

Connecting to Power

To connect the ATB printer to the power line, follow the instructions below:

- Plug the power cable of the printer in a dedicated wall receptacle. Do not plug any other electric products into the same receptacle. If the printer shares a receptacle with an air conditioner, copy machine, or shredder, faulty operation may result due to electric noise. If a dedicated wall receptacle cannot be used, use a commercially-available noise filter or transformer.
- Route the power cable such that people do not step on it. Do not place anything on the power cable.

Important Note on the Side Cover

As a measure of safety, this ATB printer cannot be operated while the side cover is open. Close the side cover and lock the cover with the key to print coupons.

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Available Types

The Sigma Data — 7200 ATB printer is classified into 2 types, i.e., Type B and Type D. Refer to the printer types listed below when reading this manual.

Туре	Printing Method	Number of Bins
Type B	Direct thermal only	Two internal bins and one external bin (BIN 3)
Type D	Direct thermal or thermal transfer	Two internal bins and one external bin (BIN 3)

Note:

Type B cannot be used for Thermal Transfer printing with a transfer ribbon.

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1. Before Using the ATB Printer

1.1 Checking the Package

The ATB printer and accessories are packed in the same box. Carefully remove the printer and accessories from the box and packing materials, then check that the package contains all of the items needed for operation that are pictured below. The package also contains a warranty card and may have other information sheets.



1.2 Names and Functions

This section explains the names and functions of each part.



1.2.2 Functions

No.	Names	Functions
А	Operator panel	Houses the LEDs and keypad needed to operate the ATB printer.
В	Cover lock	Locks the side cover. (Use the key to open the cover.)
С	Inserter	Used to insert single coupons (one at a time).
D	Output stacker	Receives ejected coupons, print-side up. (Has a capacity of 100 coupons.)
Е	Feed knobs	Used to remove jammed coupons.
F	BIN 1, BIN 2, and BIN 3 load knobs	Used to load coupons into the feed rollers for each bin.
G	BIN 1	Used to hold coupons for printing. (BIN 1 has a capacity of 500 coupons.)
Н	BIN 2	Used to hold coupons for printing. (BIN 2 has a capacity of 500 coupons.)
Ι	Thermal head	Prints on the coupon.
J	Interface connector (downline)	Used to connect the printer to a downline printer (reserved).
K	Power switch	Turns the power on and off.
L	Power connector	Used to connect the power cable.
М	Interface connector (Host)	Used to connect the ATB printer to the terminal.
Ν	BIN 3	Used to insert coupons. (BIN 3 has a capacity of 1000 coupons externally.)
0	Thermal transfer take-up reel	Holds used ribbon after thermal transfer printing (type D unit only).
Р	Thermal transfer supply reel	Supplies ribbon for thermal transfer printing (type D unit only).

1.2.3 Operator Panel

Operator Panel Layout



LED Functions

LEDs indicate printer status by turning on, turning off, or blinking.



LCD Panel Functions

The LCD panel displays the operating status or setup values for the ATB printer in 16 columns and 2 rows.



Key Functions

Each key has two different functions for different operating modes.

Function indicated at the top *Enabled in ONLINE or OFFLINE mode.*

Function indicated at the bottom *Enabled in TEST, SETUP, or CLEANING modes.*

Functions



ONLINE

Cycles the ATB printer between ONLINE (ticketing enable) and OFFLINE (local) mode. If the ATB printer is online, pressing this switch sets it offline. If the ATB printer is offline, pressing this switch sets it online.

ENTER

This switch executes the menu item displayed on the LCD panel or registers the setup settings. Pressing this key changes and stores the setup values for each item of the setup menu.



RESET

In the event of an error, pressing this key stops the buzzer and releases the error.

QUIT

Pressing this key ends the menu item displayed on the LCD panel.



EJECT

Pressing this key ejects any coupons inside.

♠

Pressing this key selects the menu item or the setup value on the LCD panel. Automatic repeat when held down.





TEST

In OFFLINE (local) mode, pressing this key sets the ATB printer to TEST mode (maintenance mode).

←

Pressing this key moves the cursor on the LCD panel to the left. Automatic repeat when held down.

SET UP

In OFFLINE (local) mode, pressing this key sets the ATB printer to SETUP mode (maintenance mode).

→

Pressing this key moves the cursor on the LCD panel to the right. Automatic repeat when held down.

CLEANING

In OFFLINE (local) mode, pressing this key sets the ATB printer to CLEANING mode.

$\mathbf{\Psi}$

Pressing this key selects the menu item or the setup value on the LCD panel. Automatic repeat when held down.



key

SET UP



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2. Operation

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2.1 Connecting the ATB Printer

This section explains how to connect the ATB printer to the power supply and the terminal.

2.1.1 Connecting to a Wall Receptacle



A. Check that the power switch on the ATB printer is turned off.



B. Plug the power cable into the ATB printer. Then, plug the other end of the power cable into a wall receptacle.

Note! Only use the supplied power cable. Ensure that the power cord complies with all local ordinances.

IMPORTANT...

The **Ferrite Core** must be attached to the AC Power Cord before the printer is connected to the wall receptacle. Failure to attach the Ferrite Core to the AC Power Cord may cause non-compliance to:

FCC Regulations for Class A computing device	Canadian ICES-003
EN55022-1 Class A Limits	EN50082-1
EN61000-3-2	EN61000-3-3

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2.1.2 Connecting the Terminal

Before connecting the printer to a terminal, do the following:



A. Ensure that both the ATB printer and the terminal are turned off.



B. Attach the communications cable to the RS-232 port located on the back of the ATB printer, labeled "HOST." Then connect the cable to the terminal.

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2.2 Turning the Power On and Off

After the ATB printer has been successfully installed and connected, turn on the power.

Note!

Turn on the terminal before turning on the ATB printer. Reverse the sequence when turning off the power.



Turn the power switch on.

The LCD panel displays the following three indicators in turn for specified intervals (a few seconds). Then, the ATB printer is set online.

When the power is turned on, the four LEDs are turned on as part of the self test routine.



The above is only an example. The actual displayed ROM value and available type may be different from this example.

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2.3 Loading the Documents

Documents are loaded into the bins. The printer has two internal bins (1 and 2) and one external bin (3). The two or three bins can store the same or different types of documents. When different types of documents are loaded, the bins are selected as specified by the terminal.

2.3.1 Loading Documents into BINs 1 and 2

Each internal bin can store up to 500 documents. The following explains how to load the documents. Refer to the next section for loading documents into BIN 3.



A. Take the documents out of the package. It is not necessary to take coupons out of the box when using 500 coupon size boxes.



Falling covers may cause injury. Do not take your hands off covers when opening and/or closing them.

B. Release the key lock of the side cover. Turn the key clockwise to the OPEN position.

Note! The key cannot be removed in the OPEN position.

C. Slowly open the first side cover (bottom right) as wide as possible.

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Magstripe (When loading a box) **Document Orientation** Magstripe Note!

Front end

BIN 2

BIN 1

D. Slowly open the second side cover (top right) as wide as possible.

E. Load the documents into the bin, with the magstripe facing up and the front end on the right. Load the box in the same manner, with the magstripe facing up and the front end on the right. There are two bins (BIN 1 and 2). Each bin can store up to 500 documents.

NOTE!

DO NOT load more than 500 coupons in BINS 1 and 2 or print jamming may occur!

Neatly align the documents in the bins with the magstripe to the inside of the machine.

ATA-7200 OPERATION





F. Hold the first document and insert it into the slot along the coupon travel guides until it stops.

G. Feed the document into the rollers. Turn the knob to feed the front end of the document until you hear a beep (if the printer is turned on). If the printer is off, turn the knob a full turn. For BIN 1: Turn the red knob, labeled 1,

counter-clockwise as shown on the label. For BIN 2: Turn the yellow knob, labeled 2, counter-clockwise as shown on the label.

Note!

Make sure that the documents do not touch each other in the visual inspection window.

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H. Close the side cover (top right).

I. Set the key to the OPEN position, and close the side cover (bottom right).



J. Lock the side cover by gently pushing the side cover and turning the key counter-clockwise to the LOCK position. Remove the key.

Note! Be careful not to leave the key in the ATB printer.

If the key cannot be removed in the LOCK position, turn it slightly clockwise or counter-clockwise.

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2.4 Setting Documents in BIN 3

You will need some space in the back side of the ATB printer to use BIN 3. Keep the documents in the box.



Set the documents as follows:



A. Open the box of documents and set it in the back of the ATB printer.

Note! Do not remove the documents from the box.

B. Set the documents as shown in the left figure.



C. Release the key lock for the side cover. Turn the key clockwise to the OPEN position.

Note!

The key cannot be removed in the OPEN position.



D. Slowly open the first side cover (bottom right) as wide as possible.





E. Slowly open the second side cover (top right) as wide as possible.

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F. Insert the first document in the BIN 3 slot until it touches the feeding roller.

G. Feed the document. Turn the green knob, labeled 3, counter-clockwise to feed the front end of the document until you hear a beep (if the printer is turned on). If the printer is off, turn the knob a full turn.

Note!

Make sure that the documents do not touch each other in the visual inspection window.



H. Close the side cover (top right).

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I. Set the key to the OPEN position, and close the side cover (bottom right).



J. Lock the side cover by gently pushing the side cover and turning the key counter-clockwise to the LOCK position. Remove the key.

Note!

Be careful not to leave the key in the ATB printer.

If the key cannot be removed in the LOCK position, turn it slightly clockwise or counter-clockwise.

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2.5 Loading Documents into the Inserter

While the ATB printer is on, you can use the inserter to read and/or print a document. Note that only one document can be inserted at one time.



With the printer turned on, insert a document into the inserter slot until you hear a beep. The ATB printer then draws the document in for printing.

Note! Insert only one document at a time.

Do not insert the next document before the previous document is ejected. Otherwise, a double-feed or paper jam occurs.

Note!

Do not insert the coupon portion of the document (only) or a paper jam can occur. To clear a paper jam, see "Removing the Jammed Coupon" in Section 4.1 and, perform the jam removing procedure for the inserter.





2.6 Installing the Transfer Ribbon (TT — Type D Only)

Install the transfer ribbon according to the procedure below. The following operation is only used for thermal transfer.



A. Take the transfer ribbon out of the bag and remove the protector.

B. Install the new ribbon on the ribbon loader:a) Place the full roll of ribbon on the right side of the loader.

b) Place the empty take-up core on the left side of the loader.

c) Pass the transfer ribbon (film) along the two guides on the roller, from the full roll to the take-up core.

Note!

Install the transfer ribbon while keeping the ribbon tight, NOT slack.

C. Release the key lock of the side cover. Turn the key clockwise to the OPEN position.

Note! The key cannot be removed in the OPEN position.





D. Slowly open the first side cover (bottom right) as wide as possible.



Falling covers may cause injury. Do not take your hands off covers when opening and/ or closing them.

E. Slowly open the second side cover (top right) as wide as possible.



F. Install the transfer ribbon. Gently push the transfer ribbon into the receptacle until both pivots click and hold the ribbon.

Note! Be careful not to let the ribbon insertion port catch the lead tape.





G. Remove the ribbon loader. Squeeze the lock with your fingers to remove the loader.

Note! Make certain that both ribbon cores are clicked on the pivots.

H. Turn the ribbon take-up core in the direction of the arrow until the ink portion of the transfer ribbon is seen. Then, turn it at least 3 additional times.

Note!

Be careful of which direction you turn the ribbon core. Only turn the core in the direction indicated by the arrow!



I. Close the side cover (top right).





J. Set the key to the OPEN position and close the side cover (bottom right).

K. Lock the side cover by gently pushing the side cover and turning the key counter-clockwise to the LOCK position. Remove the key.

Note! Be careful not to leave the key in the printer.

If the key cannot be removed in the LOCK position, turn it slightly clockwise or counter-clockwise.
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2.7 Changing Transfer Ribbons (TT — Type D Only)

When the transfer ribbon needs replacement, the LCD panel displays a message.

LCD Panel Display

WARNING: END OF RIBBON

The following operation is only for thermal transfer.

Replace the transfer ribbon following the steps below:



A. Release the key lock of the side cover. Turn the key clockwise to the OPEN position.

Note! The key cannot be removed in the OPEN position.

B. Slowly open the first side cover (bottom right) as wide as possible.



Falling covers may cause injury. Do not take your hands off covers when opening and/ or closing them.

C. Slowly open the second side cover (top right) as wide as possible.



D. Pinch both blue pivots to unlock and take out the used transfer ribbon.

Note!

It is normal for some unused transfer ribbon to be on the ribbon core.

E. Refer to the section, "Installing the Transfer Ribbon," to install a new ribbon.

Treat used transfer ribbons as plastic waste.

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3. Daily Maintenance



3.1 Cleaning the ATB Printer

This section explains the ATB printer components that need regular cleaning.

Notes on Cleaning:

Turn the power off and unplug the power cable before starting any cleaning procedure *except when using the cleaning card*!

Only use water or neutral detergents, or isopropyl alcohol as specified. Never use harsh cleaning chemicals!

3.1.1 Cleaning the Printer Surface

Use a cloth moistened with water or a neutral detergent to wipe the ATB printer surface. Squeeze or wring the cloth to remove excess water and leave the cloth damp rather than dripping wet. Use a soft, dry cloth for the final wiping. Make certain the ATB printer surface is completely dry!



3.1.2 Cleaning the Magnetic Head

Magnetic particles, paper particles, or dust sticking to the magnetic head may cause read errors. Before starting the day's transactions, use the cleaning card to clean the magnetic head.

The cleaning card is optional (sold separately).

The following explains how to clean the magnetic head.



A. Turn on the ATB printer. Press the ONLINE key to set the ATB printer offline (local mode).



B. Press the CLEANING key. The ATB printer enters cleaning mode and the LCD panel displays "Insert Cleaning Card."



- C. Insert the cleaning card.
 - Insert the cleaning card with the instruction label on the card facing upward.
 - The LCD panel displays "Maghead Cleaning." while the ATB printer cleans the magnetic head.
 - At the end of cleaning, the cleaning card is automatically ejected into the output stacker.

Repeat the cleaning procedure several times as necessary.

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3.1.3 Cleaning the Thermal Head

Clean the thermal head when replenishing a bin with documents or when changing the transfer ribbon. Use a cotton swab moistened with isopropyl alcohol. **Do not use thinner or benzene.**

Note!

Be careful not to injure your hands when cleaning the thermal head.

Using thinner or benzene to clean the thermal head will damage the head and may void your warranty.

A dirty thermal head lowers printing clarity.

The following explains how to clean the thermal head. Before cleaning the thermal head, remove the transfer ribbon. (See the "Changing Transfer Ribbons" section)



- 1. Moisten a cotton swab with isopropyl alcohol.
- 2. Use the cotton swab to clean the thermal head. Rub the swab back and forth across the print head.



Although the cleaning frequency depends on the operating conditions (quality of the paper media used, dusty atmosphere, etc.), you should clean the thermal head at least once every 5,000 documents.



3.1.4 Cleaning a Platen Roller

Clean the platen roller when replenishing a bin with documents. Use a cotton swab moistened with isopropyl alcohol. **Do not use thinner or benzene.**

Note!

Be careful not to injure your hands if you clean the platen roller yourself.

Using thinner or benzene to clean the platen roller will damage the roller.

A dirty platen roller lowers printing clarity.

The following explains how to clean the platen roller. Before cleaning the platen roller, remove the transfer ribbon. (See the "Changing Transfer Ribbons" section.)



The platen roller should be cleaned with a swab containing isopropyl alcohol. *The platen roller is located below the thermal head*.

- 1. Rub the cleaning swab back and forth across the top of the roller located directly under the print head.
- 2. Rotate the blue feed knob (located to the left of this roller) and repeat the cleaning motion so the entire roller is cleaned.



Although the cleaning frequency depends on the operating conditions (quality of the paper media used, dusty atmosphere, etc.), you should clean the thermal head at least once every 5,000 documents.

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3.1.5 Cleaning a Carrier Roller

Paper dust and other dirt clinging to a carrier roller can cause a paper jam or poor printing (ex. data can be printed at a slant on the paper).

The procedure for cleaning the carrier roller is explained as illustrated below. The carrier roller should be cleaned while the side cover remains open.



Inserter and Magnetic Blocks

- 1. Apply a small amount of isopropyl alcohol to the long, thin cleaning sheet.
- 2. Insert the long cleaning sheet into the insert slot until it rests against the feed rollers.
- Turn the blue knob (labeled "Forward") clockwise to pull the cleaning sheet into the document path until about 1.2 to 1.5 inches (30mm to 40mm) of the sheet remains exposed in the front.
- 4. Hold the exposed part of the cleaning sheet firmly with one hand while again turning the blue knob clockwise. Turn the knob several turns to clean the feed rollers thoroughly.
- 5. To remove the sheet, turn the blue knob counter-clockwise while gently pulling the exposed sheet until the sheet completely exits the front of the printer.

The carrier rollers should be cleaned every 5000 coupons or if the printer performance degrades (jams, print quality, roller slipping, etc.). The long, thin cleaning sheet is used for cleaning carrier rollers, (not the card with the printed label which is used to clean the magnetic heads).



Avoid fire when using isopropyl alcohol to avoid the risk of burning.

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Bin and Cutter Blocks



The stock bin and burster rollers should be cleaned every 5000 documents or if printer performance degrades. The long, thin cleaning sheet is used for cleaning rollers, (not the card with the printed label which is used to clean the magnetic heads).



Avoid fire when using isopropyl alcohol to avoid the risk of burning.



- 1. Uniformly apply a small amount of isopropyl alcohol to the long, thin cleaning sheet.
- 2. Insert the long cleaning sheet into the BIN 1 insert slot until it rests against the feed rollers.
- 3. Turn the red knob (labeled "1") counterclockwise to pull the cleaning sheet into the document path until a resistance is felt.
- 4. Turn the blue knob (labeled "Forward") counter-clockwise until about 1.2 to 1.5 inches (30mm to 40mm) of the sheet remains exposed in BIN 1 as shown in the illustration.
- 5. To clean the BIN 1 feed rollers, hold the blue knob firmly while rotating the red BIN 1 knob clockwise for several turns.
- 6. To clean the burst rollers, hold the exposed cleaning sheet firmly with one hand while turning the blue knob counterclockwise for several turns.
- 7. To remove the sheet, turn both the blue knob and the red knob clockwise until the sheet is returned to BIN 1.

To Clean BIN 2:

- a) Repeat Steps 1 through 5, *except*, insert the cleaning sheet into the BIN 2 slot and turn the yellow knob (labeled "2") instead of the red knob.
- b) To remove the cleaning sheet, follow Step 7, *except*, use the yellow knob instead of the red knob.

To Clean BIN 3:

- a) Repeat Steps 1 through 5, *except*, insert the cleaning sheet into the BIN 3 slot (on the back of the printer) and turn the green knob (labeled "3") instead of the red knob.
- b) To remove the cleaning sheet, follow Step 7, *except*, use the green knob instead of the red knob.

3.1.6 Removing Paper Dust

Paper dust should be removed from the dust tray periodically.





A. Pull out the knob, take out the dust tray, and remove paper dust from the dust tray.

- B. Return the dust tray to the original position. Firmly push the knob into the recess and insert the dust tray.
- C. Using a can of compressed air, thoroughly blow dust out of the document path.

Although the cleaning frequency depends on the operating conditions (quality of the paper media used, dusty atmosphere, etc.), you should clean the dust tray at least once every year.

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4. Troubleshooting

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9.1 Paper Jam

In the event of a coupon jam, a buzzer sounds and the LCD panel displays a message indicating the location of the jam.

4.1.1 Part Names



4.1.2 Jam Locations and Corresponding Messages





4.1.3 Removing the jammed coupon

To remove the jammed coupon, check the location of the jam and follow the steps below.

Jam Position	Removing Procedures
Stocker (Bin) block	A, B, C, H, I, J
Cutter block	A, B, D, H, I, J
Magnetic block	A, E, I, J
Printing block Output stacker	A, F, I, J
Inserter	A, G, I, J

• In the table above, Steps A through J correspond to the step numbers in the following procedures.



Unlock the cover before starting any procedure.

Release the key lock on the side cover. Turn the key clockwise to the OPEN position.

Note! The key cannot be removed in the OPEN position.

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A. Slowly open the first side cover (bottom right) as wide as you can.



Falling covers may cause injury. Do not take your hands off covers when opening and/ or closing them.





B. Slowly open the second side cover (top right) as wide as you can.





- C. Remove the jammed coupon from the appropriate bin.
 - 1. Use the knob where the jam occurred:
 - BIN 1 red knob
 - BIN 2 yellow knob
 - BIN 3 green knob

(continued)





2. Turn the knob to return the jammed coupon to the bin area.



3. Pull the jammed coupon out and remove it.



D. Remove the jammed coupon (cutter block)

After the jammed coupon has been cut:

1. Locate the blue knob labeled "Forward."

(continued)



2. Turn the feed knob to feed the jammed coupon to the magnetic block. (Go to Step E to remove the jammed coupon.)



If the jammed coupon has NOT been cut:

- 1. Use the knob for the appropriate bin AND the feed knob.
- 2. Turn both knobs clockwise simultaneously to return the jammed coupon to the input slot.

(continued)





- Side pressure roller

3. Pull the jammed coupon out of the input slot and remove the damaged coupon.

- E. Remove the jammed coupon from the magnetic block.
 - 1. Insert your fingers into the hole on the guide face, then lift and remove the jammed coupon while rotating the feed knob back and forth.

2. Take out the jammed document while pulling down the side pressure roller. (The document is lifted up when the side pressure roller is pulled down.)

F. Remove the jammed coupon from the printing block and output stacker.

The method varies depending on the location of the jammed coupon.

When the jammed coupon is caught by the rollers shaded in the figure to the right:

Printing block and output stacker block







1. Locate the blue feed knob for the output stacker.

2. Turn the feed knob in the direction of the arrow to feed the jammed coupon to the output stacker.



When the jammed coupon is not caught by the rollers shaded in the figure:

1. Locate the blue feed knob labeled "Forward."



2. Turn the knob in the direction of the arrow to feed the jammed coupon to the magnetic block.

To remove the jammed coupon, go to step E.

G. Remove the jammed coupon. (Inserter)







1. Locate the blue feed knob labeled "Forward."



2. Turn the feed knob in the direction of the arrow to feed the jammed coupon to the inserter.





H. Close the side cover (top right).





I. Set the key to the OPEN position, and close the side cover (bottom right).



J. Lock the side cover by gently pushing the side cover and turning the key counter-clockwise to the LOCK position. Remove the key.

Note!

Be careful not to leave the key in the printer.

If the key cannot be removed in the LOCK position, turn it slightly clockwise or counter-clockwise.

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4.2 Error Messages

When an error has occurred in the ATB printer, an error message is displayed on the LCD panel. The error messages are listed in the table below.

Error Message	Error State	Recovery Procedure	
WARNING:	Indicates a relatively minor error, ex. when consumption articles (documents, etc.) has run short (paper-out), when the operator has made a mistake, etc.	Open the cover, take necessary actions for recovery, and close the cover. If the error continues, contact a service technician.	
PAPER JAM:	Indicates an error caused by the paper jam. The block where the paper jam has occurred is displayed.	Open the cover, remove the jammed coupon, and close the cover.	
COM.ERROR:	Indicates an error in communication with the terminal.	Verify communication parameters. If the error continues, contact a service technician.	
ENCODING ERROR:	Indicates an error during magstripe encoding.	The error coupon is automatically ejected and voided. Press the RESET key. If the error continues, contact a service technician.	
MAGNETIC ERROR:	Indicates an error during magstripe decoding.	Press the RESET key. If the error continues, contact a service technician.	
SYSTEM ERROR:	Indicates an error that seldom occurs under ordinary circumstances.	Power the printer off and on. If the error continues, contact a service technician.	
OTHERS:	Indicates other errors such as AEA programming errors, etc.Indicates a relatively minor error. For example, end of expendables (coupons) or operator errors.	Power the printer off and on. If the error continues, contact a service technician.	

Error Message	Error State	Recovery Procedure
OUT OF REQUESTED PAPER	The requested document has ended.	Install the documents.
ENCODING ERROR REMOVE VOID DOC.	Encoding could not be executed normally.	Remove the void coupon.
MULTIPLE ENCODING ERROR	Encoding error has occurred twice continuously.	Remove the void coupon and clean the magnetic head. Verify that the coupon is properly inserted.
CHECK-IN IN PROGRESS	The interface has an error. (During the Check-In.)	Wait for the Check-In to end.
TICKETING IN PROGRESS	The interface has an error. (During the ticketing.)	Wait for the Ticketing to end.
WARNING: END OF RIBBON	Ribbon ends (when TT is set)	Install a new transfer ribbon. (Refer to "Changing Transfer Ribbons".)
WARNING: DETACHED RIBBON	No transfer ribbon (when TT is set)	Install a transfer ribbon. (Refer to "Installing the Transfer Ribbon".)
WARNING: ATTACHED RIBBON	Ribbon is installed when the printer is in direct thermal mode.	Remove the transfer ribbon.
WARNING: STACKER FULL	The output stacker is full.	Remove the document from the output stacker.
WARNING: COVER OPENED	The cover is open.	Close and lock the cover.
WARNING: PAPER OUT 1 2 3	Documents have run out (in this case, only the related bin is displayed).	Load documents.
TAKE YOUR DOCUMENT	Not an error.	Take the coupon.
PAPER JAM:ZONE A STOCKER 1	Paper jam in BIN 1.	Remove the jammed coupon. (Refer to "Paper Jam".)
PAPER JAM:ZONE A STOCKER 2	Paper jam in BIN 2.	
PAPER JAM:ZONE A STOCKER 3	Paper jam in the slot of BIN 3.	
PAPER JAM:ZONE A CUTTER BLOCK	Paper jam in the cutter block.	
PAPER JAM:ZONE B MAGNETIC BLOCK	Paper jam in the magnetic block.	
PAPER JAM:ZONE C PRINTING BLOCK	Paper jam in the printing block.	
PAPER JAM:ZONE B INSERTER	Paper jam in the front inserter.	



The following error messages are reference data. They concern a service engineer.

Error Message	Error State	Recovery Procedure	
ILLOGICAL COMMAND	The interface has an error. (An illogical command has been received.)	Contact a service technician.	
INCORRECT FIELD	The interface has an error. (An incorrect element has been received.)		
OUT OF SEQUENCE	The interface has an error. (The sequence of the inserted document is incorrect.)		
NO PECTAB AVAILABLE	The interface has an error. (No PECTAB is available.)		
ERRONEOUS ELEMENT**	The interface has an error. (The PECTAB element error has occurred.)		
ERRONEOUS CLF CODE	The interface has an error. (The PECTAB CLF error has occurred.)		
PECTAB EXCEEDS 4K	The interface has an error. (The PECTAB exceeds 4K bytes.)		
MEMORY OVERFLOW	The interface has an error. (Memory has overflowed.)		
DOCUMENT UNKNOWN TO PRINTER	The interface has an error. (The specified document type has not been defined by the ATB printer.)		
LOGO LOAD ERROR	The interface has an error. (The logo load text has an error.)		
CANNOT MODIFY LOGO FILE ON ROM	The interface has an error. (An attempt was made to update the logo loaded on the ROM.)		
CANNOT DELETE LOGO FILE ON ROM	The interface has an error. (An attempt was made to delete the logo loaded on the ROM.)		
TEMPLATE LOAD ERROR	The interface has an error. (The template text has an error.)		
CANNOT MODIFY TEMPLEATE ON ROM	The interface has an error. (An attempt was made to update the template on the ROM.)		
CANNOT DELETE TEMPLEATE ON ROM	The interface has an error. (An attempt was made to delete the template on the ROM.)		
LOGO(OBJECT) NOT FOUND	The ineterface has an error. (The specified logo was not found in the template.)		
ILLEGAL Coupon Number	The interface has an error. (Documents are not arranged in descending order up to 01.)		
SYSTEM ERROR: PRINT HEAD	An error has occurred in the print head.		
SYSTEM ERROR: RIBBON REWINDING	An error has occurred during ribbon rewinding.		

Error Message	Error State	Recovery Procedure
SYSTEM ERROR: PRINT POSITION	An error has occurred during the print head positioning.	Contact a service technician.
SYSTEM ERROR: FUSE	A fault was detected in the fuse.	
SYSTEM ERROR: SERVOMOTOR	The servo motor is overloaded.	
COM.ERROR: PARITY	The RS232C interface has an error. (An error was detected in the communication parity.)	
COM.ERROR: PROTOCOL = **	The RS232C interface has an error. An error was detected in the communication protocol. (Ex. STX, ETX, LRC, time-out, etc.)	
COM.ERROR: FRAME	The RS232C interface has an error. An error was detected in the communication framing.	
COM.ERROR: OVER RUN	The RS232C interface has an error. Communication overrun error	
COM.ERROR: BLOCK TOO LONG	The RS232C interface has an error. Too-long block was received.	
MAGNETIC ERROR: XXX XXX XXX XXX	A magnetic error was detected in the track, block, etc.	
SYSTEM ERROR: PARAMETER FAULT	The incorrect setup parameter was specified.	
SYSTEM ERROR: EXP.ROM FAULT	An error was detected in the extension memory.	
SYSTEM ERROR: PECTAB FAULT	A fault was detected in PECTAB.	
SYSTEM ERROR: BATTERY LOW	The voltage of the backup battery is low.	
SYSTEM ERROR: MCU ERRCODE = **	System error	
SYSTEM ERROR: SCU ERRCODE = **	System error	
SCN ERROR: MAG.NOT FOUND	Non-existent error	
SCN ERROR: NOT READABLE	SCN reading errors occurred twice successively.	
SCN ERROR: NOT FOUND	When a command for asking SCN was received, SCN reading error occurred.	
SCN ERROR: BIN NOT FOUND	Setting error for SCN	
SCN READING ERR REMOVE VOID DOC.	SCN reading error	

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Appendix 1: Specifications

A.1.1 Document Carrier Structure



Document Carrier Structure

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A.1.2 Covers

Open (swing down) the bottom right side cover first, then open (swing up) the top right side cover. You can insert the documents, change the ribbons (when TT is set), take out a jammed document, and perform cleaning and other tasks while the covers are open. The cover lock (key operated) is on the bottom right side cover. (See "Space Required.")





D**ATA-7200** Appendix

A.1.3 General Specifications and Power requirements

Dimensions and Weight

- 8.3 inches (210mm) W x 21.6 inches (550mm) D x 15.0 inches (380mm) H
- Less than 35.3 lb. (16 kg)

Temperature and Humidity

Make sure that the following temperature and humidity conditions are met :

- Ambient temperature: 41 to 104 degrees F (5 to 40 degrees C)
- Ambient humidity: 20% to 90% RH (relative humidity) no condensation.

Notes on the Operating Environment

When installing the product where the ambient humidity is 30% or less, it is recommended that you use a humidifier to raise the humidity to higher levels. Use an antistatic mat as necessary.

Power Connection

Power Line Conditions

Ensure that the power supply satisfies the following requirements:

- Voltage: 85 to 132 or 170 to 265 VAC (automatic voltage switching)
- Frequency: 47 to 63 Hz
- Power consumption: 250 VAC (Printing) or 80 VAC (Stand by)

If the power line is unstable, use a voltage regulator or similar device.

Connecting to Power

To connect the ATB printer to the power line, follow the instructions below:

- Plug the power cable of the printer in a dedicated wall receptacle. Do not plug any other electric products into the same receptacle. If the printer shares a receptacle with an air conditioner, copy machine, or shredder, faulty operation may result due to electric noise. If a dedicated wall receptacle cannot be used, use a commercially-available noise filter or transformer.
- Route the power cable such that people do not step on it. Do not place anything on the power cable.

Important Note on the Side Cover

As a measure of safety, this ATB printer cannot be operated while the side cover is open. Close the side cover and lock the cover with the key to print coupons.

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A.1.4 Bins and Feeder

This ATB printer has 2 internal bins and a third external bin as standard. Each of them can contain documents for printing. The specifications of each bin are as follows:

(1) Bins

Bin No.	Standard	Internal	Capacity	Document Types
1	√	✓	500	
2	✓	✓	500	IATA Resolution 1720a, 1722c, 722c, 722d, 722e, Continuous-fanfolds
3	✓		1000	

(2) Document specifications	Refer to the ATB Printer Document Specifications.
(3) Detection	End detecting function available
	Near-end detecting function not available
(4) Documents set	<i>With or without a box; either available</i>

A.1.5 Encoding Specifications

(1) Magnetic encode method	F2F (Two frequency coherent phase recording)
(2) Track	4 tracks
(3) Recording density	210 BPI (All tracks)
(4) Coded character set	6-bit code + 1 parity
(5) Data check method	Comparison check after written
(6) Coercive force	$325\pm10\%$
(7) In case of encode error	The document with "VOID" printed is printed out.
(8) Magnetic stripe specifications	Refer to the ATB Printer Document Specifications
(9) Encoding area	Refer to Encoding Area figure in Maintenance manual

A.1.6 Printing

(1) Printing method	Direct line thermal (1 dot-line at a time)	
	Thermal transfer (available; 1 dot-line at a time)	
(2) Printing area	Refer to Printing Area figure in Maintenance manual	
(3) Printing color	Black	
(4) Dot-density	Horizontal: 203dpi (0.125mm/dot)	
·	Vertical: 203dpi (0.125mm/dot)	

Refer to "Transfer Ribbon Printing" for the transfer ribbon structure.

Operation Manual

A.1.7 Inserter

- (1) Document feeding direction
- (2) Shutter
- (3) Non-standard documents inserted
- (4) Document feeding
- (5) Documents rejected

A.1.8 Output Stacker

(1) Capacity

- (2) Document direction
- (3) Full detection

Face side up, leading side first in Not available Passed back to the front inserter to be kept, or jammed in the carrier structure The beep sound occurs when a document is fed normally Passed to the output stacker

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100 documents Face side up, leading side first out Available

A.1.9 Transfer Ribbon Printing (Type D printers only)

(1) Near-end detection

- (2) End detection(3) Breakage detection
- (4) Standardization
- (5) Life span

(6) Setting(7) Multi-time print

Available; approximately 10 documents before end Available Not available Refer to the transfer ribbon specifications 5,000 documents per roll (maximum, while multi-time printing) Thermal transfer (TT) Four stages available, set on the front control panel

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Appendix 2: Consumables

To order supplies, call the sales agent or company where the printer was purchased.

A.2.1 Thermal Transfer Ribbon

Always use a genuine Sigma Data — 7200 thermal transfer ribbon. The ATB printer may malfunction if any other kind of thermal transfer ribbon is used.

Part No.	Name	Sales unit
111012	Transfer Ribbon	A loader and 6 ribbons
111018	Transfer Ribbon	A loader and 1 ribbon

StoringTransfer Ribbons

To store transfer ribbons, note the following:

- Do not open the package if the ribbon is to be stored.
- Avoid direct sunlight. Ensure that the following temperature and humidity ranges are met. Temperature: 59 to 86 degrees F (15 to 30 degrees C) Humidity: 45 to 80% RH
- Avoid high or drastically changing temperatures or humidity.
- Keep the ribbon out of reach of children.

A.2.2 Printer Accessories

Part No.	Name	Usage
111073	Cleaning kit (1 card, 1 sheet, 1 swab)	For cleaning rollers, magnetic head, and print head
111008	Cleaning card for magnetic head (5/pack)	For cleaning the magnetic head
111007	Cleaning sheet for roller (5/pack)	For cleaning the carrier roller
111010	Swab for thermal head and platen roller (15/pack)	For cleaning the print head and platen roller
111067	Keys	Keys to unlock side cover
107747	Printer stand	Stand for printer
111087	Maintenance manual	Manual for servicing printer

Isopropyl alcohol must be purchased locally, due to transportation restrictions.

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