

AMANO

TCX-85

Atomic Time Clock

Quick-Start Guide



Proprietary Notice

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Amano Cincinnati, Inc. reserves the right to make equipment changes and improvements, which may not be reflected in this document. Portions of this document may have been updated to include the latest hardware or firmware version, if applicable.

To ensure safe use of this time recorder/stamp, be sure to thoroughly read this manual in its entirety before any attempt is made to operate the equipment. After you have finished reading this manual, be sure to store it in a safe place for future reference.

Thank You....

For purchasing another fine product from Amano Cincinnati, Inc.

For Safe and proper operation, please carefully read the manual before using the time clock and save it for reference.

Warranty Notice

Any claim for warranty, express or implied, due to the clocks failure to properly receive the radio signal because of interference, whatever may be the source of this interference, are hereby expressly excluded.

The **TCX-85** has the atomic clock (radio-controlled clock) feature which displays the current time precisely by automatically receiving time code signals on long wave radio from the transmitting station. The unit receives the time code signal via its built-in antenna system.

Note: 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.

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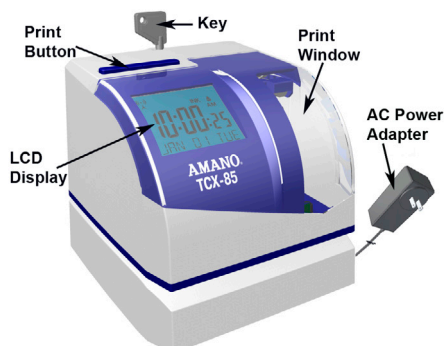
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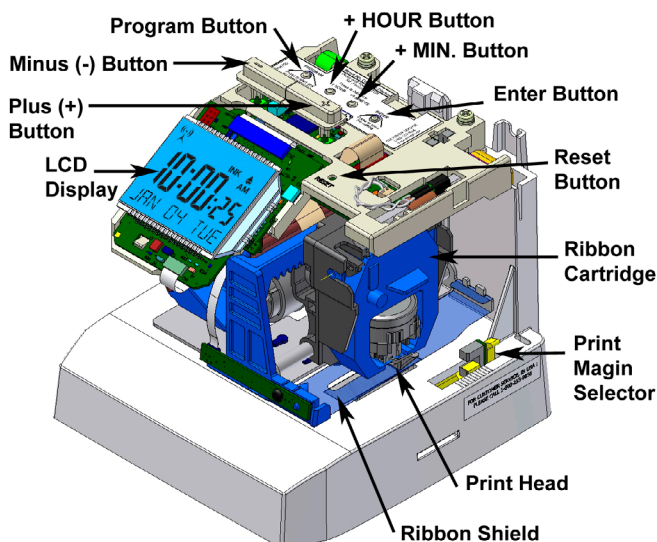
Important! Do not return this clock to the retailer. If you have any questions or need assistance, please call us toll free at **1-800-253-9836**

Need Ribbons, Keys and Accessories?
Visit
www.amano.com/time
Or call 1-800-253-9836

External View











Internal View













GUIDELINES FOR SAFE OPERATION....



To ensure safe operation, please carefully read the following warnings and cautions prior to using the **TCX-85** Electronic time recorder/stamp.

 Warning	
	Do not disassemble the unit. There is a high voltage present inside, possibly leading to an electric shock.
	Do not modify the unit. Modifications may cause a fire and/or electric shock.
	If any anomaly occurs, for example, heat or smoke is generated or an odor is emitted, unplug the unit immediately and contact your dealer for servicing. There is a danger that further use may cause a fire or electric shock.
	Do not use any voltage of the power source other than designated. Do not share a single outlet with another plug. These may lead to fire or shock hazards.
	Do not damage, break, or modify the power cord. Do not put a heavy object on, pull, or forcefully bend the cord, either. These may damage the cord, possibly resulting in a fire or electric shock.
	If foreign matter should get in the unit (including a piece of metal, water, or liquid), disconnect the plug from the outlet immediately and contact your dealer for servicing. There is a danger that further use may cause a fire or electric shock.
	Do not plug or unplug the unit with a wet hand. You may get an electric shock.

Caution

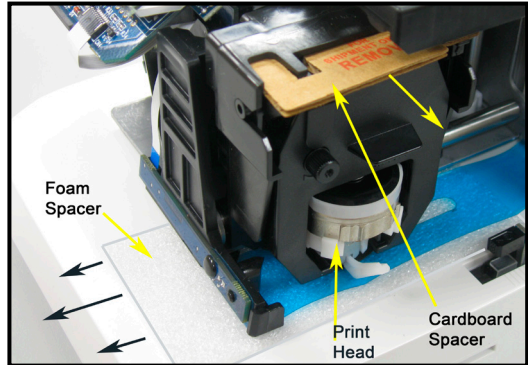
	Do not place the unit on an uneven or tilted surface. This may result in injuries due to the unit dropping or falling off.
	Do not put a water-filled container or a metal object on top of the unit. If water is spilled or the metallic object slips inside, a fire or shock hazard may occur.
	Do not install the unit in a humid or dusty environment. It may cause a fire or electric shock.
	Do not place the unit near kitchen counter or humidifier. Oil, smoke, or steam generating from them may cause fire or shock hazards.
	Do not yank the power cord to disconnect from the outlet. Hold the plug with your hand to do so, or the cord may be damaged, possibly leading to a fire or electric shock.
	Remove the line cord plug from the outlet before transferring the unit, or it may damage the cord, possibly leading to a fire or electric shock.
	Be careful not to contact the print head, as you may get hurt or burned.
	Make sure to insert the power plug as far as it will go. Improper insertion of the plug may develop fire or shock hazards.
	Do not insert or drop any other time card than specified into the slot. Such misuse may cause a fire or electric shock.
	If the unit should be dropped or the case is broken, unplug the unit and contact your dealer for servicing. Further use may lead to a fire or shock hazard.

Relation to the Health and the Environment

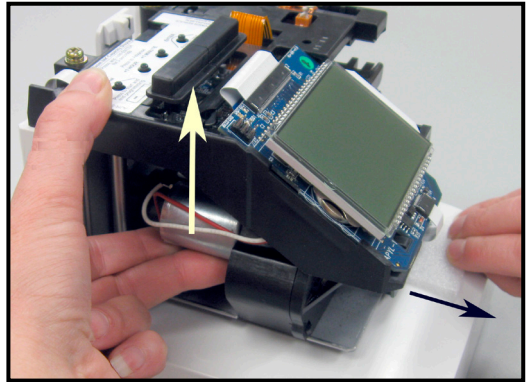
The plastic currently used for the outer enclosure of this apparatus does not contain the halogen substance.

Remove the Cover & Packing Material

1. Insert the key provided into keyhole on the top of the clock, turn clockwise $\frac{1}{4}$ turn to unlock the cover and lift the cover to remove.
2. Remove the cardboard spacer located above the ribbon cartridge by pulling straight out (see right-hand Figure).



3. Lift up the printer carriage by placing your fingers under the metal motor on the left-hand side and remove the foam spacer (white) located under the print head (see right-hand Figures). Release the printer carriage.



4. After removing the foam spacer with the cover off **plug in the clock!**
5. The TCX-85 will announce "**Voice mode enabled**" and display the time with **SETUP** on the bottom line.



Note –Should the clock not power up, verify that the AC Adapter is plugged into the rear of the clock.



Setting the Time

1. Press the **HOURL** button to advance hour by increments of one (1) until the correct hour appears.
2. Press the **MINUTE** button to advance minutes by increments of one (1) until the correct minute appears.

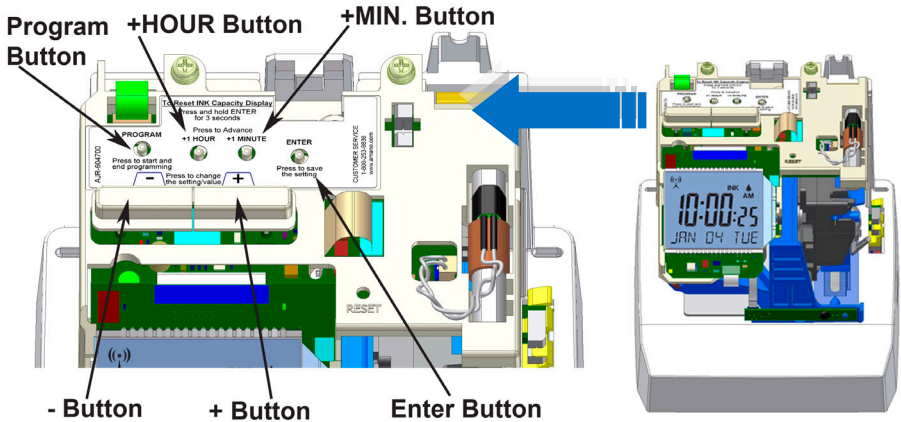


Figure 1: Programming Button Locations.

3. The default print format is Format-1 (YEAR, MONTH, DATE and TIME with AM or PM).

YEAR, MONTH, DATE, 12 Hr., MINUTES
 11 JAN 23 1:45 PM

If this format is acceptable replace the cover and the clock is ready for use. If you need to change the print format proceed to Step 3 on the next page.

Changing the Print Format (P4)

1. With the cover removed, press the **PROGRAM** button to begin button program mode and **P1 TIME** will appear.
2. Press the **+** button to change the current programming mode until the display shows **P4 PRINT FORMAT**.
3. Press the **ENTER** button once and the clock will flash the current print format. The default setting = **FORMAT-1**.
4. Press the **+** or **-** button to increase or decrease the print format value to **1, 2, 3, 4, 5, or 6**. See the following for examples of Print Format:



Format-1 **YEAR, MONTH, DATE, 12 Hr., MINUTES**
 11JAN23 1:45PM

Format-2 **YEAR, MONTH, DATE, 24 Hr., MINUTES**
 11JAN23 13:45

Format-3 **YEAR, MONTH, DATE, 24 Hr., DECIMAL (100ths)**
 11JAN23 13.75

Format-4 **YEAR, MONTH, DATE, 24 Hr., DECIMAL (10ths)**
 11JAN23 13.7

Format-5 **DAY, 24 Hr., DECIMAL (100ths)**
 TU13.75

Format-6 **2 DIGIT YEAR, MONTH, DATE, 24 Hr., MINUTES, SECONDS**
 11JAN23 13:45 20s

5. Press the **ENTER** button once to accept the current value.
6. Replace the cover for normal operation.

Should you want to change anything else, i.e., disabling auto print, disabling daylight savings, etc., the clock can now be programmed using voice commands (see below) or through the program buttons (see starting page 1-9).

Voice Programming

1. With the cover off say **"Hello Clock"** to begin voice programming the clock. The clock will respond by saying **"Welcome, to the Amano time clock, what would you like to change?"** and the clock will **BEEP**.

You must wait for the BEEP before saying command!!

Only valid commands will be accepted by the clock.

2. Voice commands can be entered in any order. See voice commands on the following page.



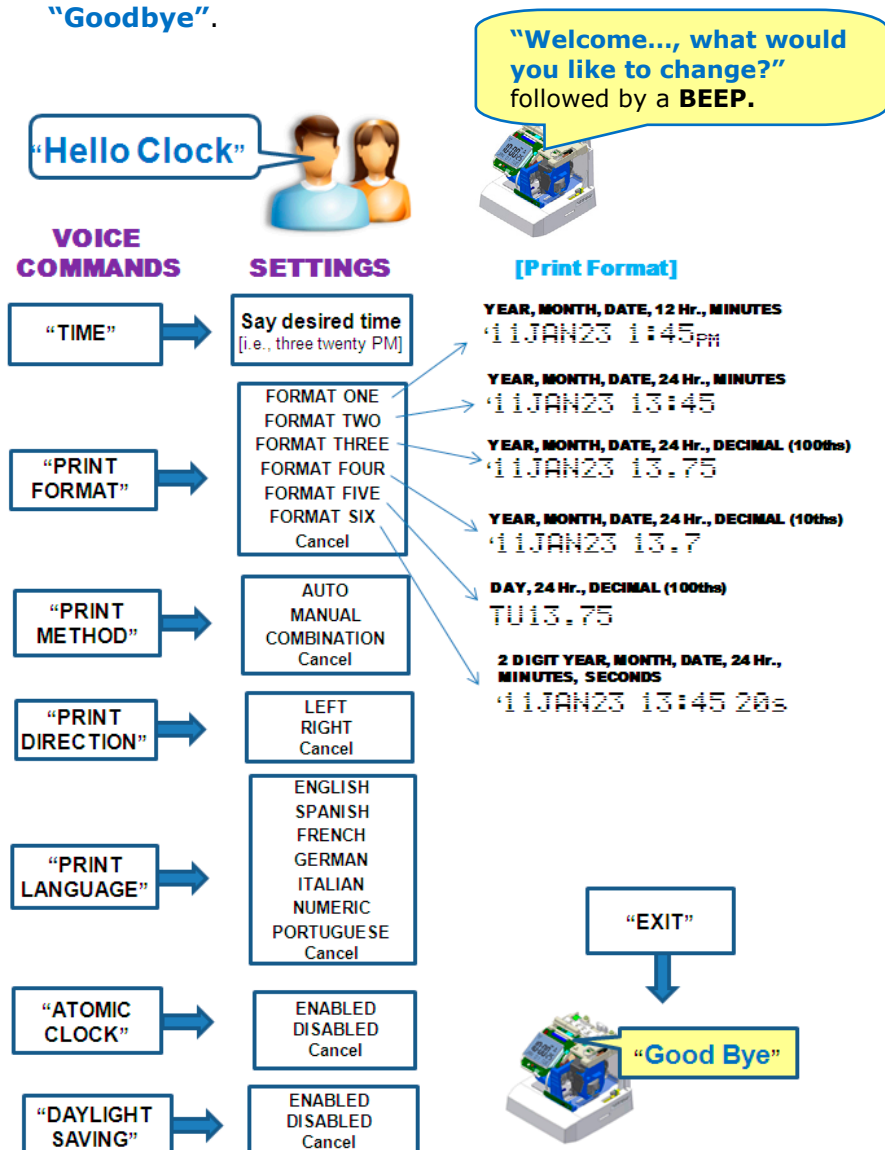
Sequence for Time Entry with Voice Commands

1. Say **"Time"** to enter into the set time mode.
2. The clock will announce, **"Current time is....."** followed by, **"Please tell me the new time"** followed by a **BEEP**.
3. After the **BEEP**, say the desired time, i.e., **"Two Twenty PM"** to set the current time as 2:20 PM. The user must end the sentence with **"AM"** or **"PM"** to complete time entry. When entering a time for the top of the hour you must say the hour followed by o'clock. For example, for 7:00 AM, please say, **"seven o'clock AM"**. In another example, for 10:02 PM, please say **"ten o' two PM"**. Upon acceptance of the voice entry, the clock will announce **"New time is....."**



Note – If the clock does not accept the new setting, it will announce an error message and keep asking the user every 3 - 4 seconds to speak the new value until the new value is accepted. **During voice program mode the buttons on top of the clock will be ignored.**

4. Say **"Exit"** to quit all voice programming or say new voice command (see chart below). When quitting voice programming the clock will respond by announcing, **"Goodbye"**.



At any time say **"EXIT"**, press the Program button, or replace the cover to stop voice programming.

Voice Programming Print Format Example

The following table lists the typical pattern of announcement messages that the clock might play for changing print format.

Voice Message Prompt	Reason
"Welcome to the Amano time Clock" "What would you like to change?"	To greet the user and prompt for command.
The User says "Print Format"	Request the clock to change the print format.
"The current print format is" followed by "Please tell me the new print format" followed by a BEEP .	To announce the current print format, request the new print format and prompt with BEEP .
The User says "Format Three"	Request the clock to set the print format = Format 3.
"The new print format is format three" followed by "What would you like to change?"	To announce the new print format set by the user and inquire for the next possible change.
The User says "Exit"	Request the clock to quit the voice programming mode.
"Good Bye"	To acknowledge exit.

During a typical voice command, the clock might say;

- **"Sorry, Command not recognized"** To inform the user that it could not understand the command so the user can repeat the command again.
- **"Sorry, data not recognized"** To inform the user that it could not understand the verbal value from the user for the current setting so the user can repeat the value again.

Button Programming

The following paragraphs must be performed with the clock cover removed.

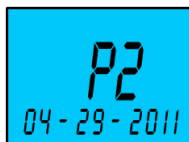
Setting the Time (*P1*)

1. With the cover removed, press the **PROGRAM** button and *P1 TIME* will appear and the voice mode will be disabled.
2. Press the **ENTER** button and the hours will start flashing.
3. Press the **+** or **-** button to increase or decrease the hours to the desired value.
4. Press the **ENTER** button once to accept the current hours and go to the minutes setup mode and the minutes will start flashing.
5. Press the **+** or **-** button to increase or decrease the minutes.
6. Press the **ENTER** button once to accept the current minutes.
7. Replace the cover for normal operation.



Setting the Date [Month/Date/Year] (*P2*)

1. With the cover removed, press the **PROGRAM** button to begin button program mode and *P1 TIME* will appear.
2. Press the **+** button to change the current programming mode until the display shows *P2 DATE*.
3. Press the **ENTER** button once and the clock will display the current date on the 2nd line (see right-hand Figure). The month will start flashing. Press the **+** or **-** button to increase or decrease the month value.
4. When the desired month is reached, press the **ENTER** button once to accept the current month and go to the date setup mode.



5. The date of the month will start flashing. Press the **+** or **-** button to increase or decrease the date to the desired value.
6. Press the **ENTER** button once to accept the current displayed date of the month and go to the year setup mode.
7. The year will start flashing. Press the **+** or **-** button to increase or decrease the year to the desired value.
8. Press the **ENTER** button once to accept the current displayed year and complete the set date mode.
9. Replace the cover for normal operation.

Enabling or Disabling Daylight Saving Time (*P3*)



Note – when this setting is set to **ENABLED**, the clock's time will automatically change for Daylight Saving. When this setting is set to **DISABLED**, the clock's time will not change for Daylight Saving.

1. With the cover removed, press the **PROGRAM** button to begin button program mode and *P1 TIME* will appear.
2. Press the **+** button to change the current programming mode until the display shows *P3 DAYLIGHT SAVING*. [The second line will scroll]
3. Press the **ENTER** button and the clock will begin flashing the current Daylight Saving setting.
4. Press the **+** or **-** button to change the Daylight Saving setting to the desired value of *ENABLED* or *DISABLED*. The default setting = Enabled [ON].
5. Press the **ENTER** button to set [save] the current value.
6. Replace the cover for normal operation.



Enabling/Disabling Auto Print (*P508*)

1. With the cover removed, press the **PROGRAM** button to begin button program mode and *P1 TIME* will appear.
2. Press the **+** or **-** button to change the current programming mode until the display shows *P5 OTHERS*.
3. Press the **ENTER** button once and the clock will display the submenu for other settings such as *P501*.
4. Press the **+** or **-** button until the display shows *P508 PRINT METHOD*. [The second line will scroll]
5. Press the **ENTER** button once and the clock will start flashing the current print method format. The default setting = AUTO. The mode choices are:
6. Press the **+** or **-** button to change the value.



Mode	Description
Auto	Will automatically print a single print when media is inserted.
Manual	Requires you to use the PRINT button when printing.
Combination	Requires you to insert media to trigger and press the PRINT button.

7. Press the **ENTER** button once to accept the current displayed value.
8. Replace the cover for normal operation.



Note – when the clock is in the manual or combination print mode, the print buttons (+ and - buttons –see Figure 1 on page 1-4) are enabled when the cover is on. Pressing either of these buttons will cause the clock to print.

Wall Mounting

Avoid the following:



1. Using the supplied mounting template (see last page of this guide), mark the two (2) mounting slots on the wall. A 3rd mounting slot can be used to provide security (see Figure 2 below).
2. Verify that the cable for AC Power Adapter is plugged into the back of the TCX-85 before hanging on the wall.
3. Hang the TCX-85 on the wall level using #10 wood screws [not included] or equivalent in the two mounting slots without removing the cover.
4. If security is an issue for removing the TCX-85 from the wall, remove the cover, and use the upper mounting slot (see Figure 2 below) to firmly secure the back of the TCX-85 to the wall. Secure to the wall using #10 wood screw (or equivalent).
5. Replace the cover for normal operation.

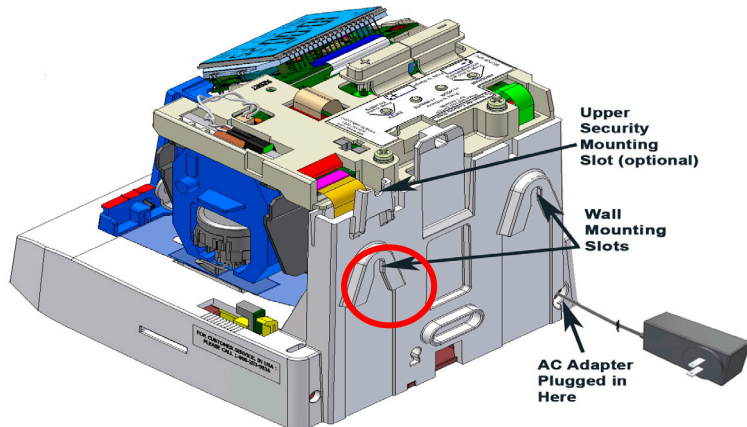


Figure 2: TCX-85 Rear View for Wall Mounting.

Enable/Disable Atomic Clock Feature (*P5₁₂*)

1. With the cover removed, press the **PROGRAM** button to begin button program mode.
2. Press the **+** button to change the current programming mode until the display shows ***P5 OTHERS.***
3. Press the **ENTER** button once and the clock will display the submenu for other settings such as ***P501.***
4. Press the **+** or **-** button until the display shows ***P5₁₂ ATOMIC CLOCK.***
[The second line will scroll]
5. Press the **ENTER** button once and the clock will start flashing the current atomic clock setting.
6. Press the **+** or **-** button to change the value to either enabled or disabled. The default setting = ENABLED [ON].
7. Press the **ENTER** button once to accept the current displayed value and go back to the previous menu.
8. Replace the cover for normal operation.



Note FAQ – If the Atomic Clock feature has been turned off by setting to disable, pressing the “Reset” button or changing the time will not turn the feature back on. The feature must be Enabled by following the steps above.

Ribbon Cartridge Replacement

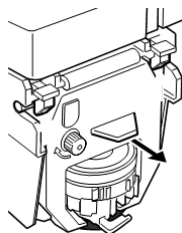
- Step 1. Insert the clock key and turn clockwise to unlock the cover, lift up the cover, and remove for ribbon access. Locate the ribbon cartridge cradle (See page 2-3).



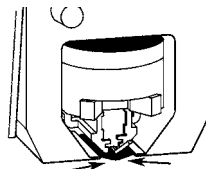
Note – You **MUST** have the key to remove the cover for ribbon replacement.

The Amano TCX-85 clock in Figure 3 shows a typical layout with the ribbon cartridge removed from the cradle.

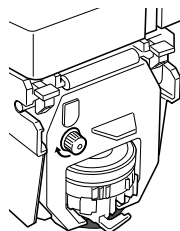
Step 2. Pull the ribbon cassette out of the cradle (see Figure 3 on page 2-3).



Step 3. Insert a new ribbon and be sure to guide the ribbon between the ribbon shield and the printer head as illustrated (see Figure to right and arrows).






Step 4. Turn the knob on the cassette clockwise one turn to take up any slack in the ribbon (see right-hand Figure).




Step 5. To reset the INK indicator, press and hold the **ENTER** button for three (3) seconds.

Step 6. Replace the cover and stamp a card to check the printing quality and confirm that you have installed the ribbon properly.

The LCD display contains an INK indicator. The TCX-85 calculates the ink capacity of the ribbon cartridge from the number of imprints made. As the ink capacity decreases, the amount of ink in the drop [indicator] will disappear. This shows the amount of ink remaining in the ribbon cartridge using 3

drop segments, from  = empty, to  = half-full, to  = full.

The empty  indicator will flash when the print counter reaches a VERY LOW level. The drop indicator and "INK" segment will continue to blink until the print counter is reset.



Note – Reset the INK indicator by pressing the **ENTER** button and holding for three (3) seconds while in the “Quick Setup Mode” [must see “**SETUP**” in line 2]. Whenever the cover is removed you are automatically in the “Quick Setup Mode”.

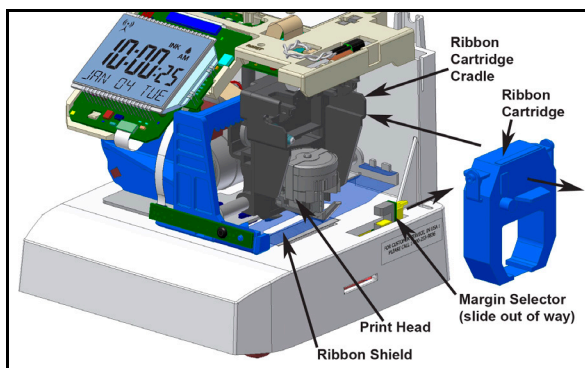


Figure 3: Ribbon Cartridge Cradle Location.



Note – If the print mechanism is down (a piece of paper could not be inserted), press the **RESET** button to move the carriage to the up position. This will make the ribbon cartridge installation easier. **The Margin Selector (see Figure 3 above) can be moved toward the rear of the clock to provide more clearance for ribbon replacement.**

Parts

The Amano Part number for a set of TCX-85 replacement keys is **AJR-201150**



Note – A key is required to unlock the top cover which allows you access to the ribbon cartridge for replacement and/or the programming buttons.

The TCX-85 ribbon cartridge in **Black** ink is: Part No. **CE-315151**

The TCX-85 ribbon cartridge in **Red** ink is: Part No. **YK-629671**

The TCX-85 ribbon cartridge in **Green** ink is: Part No. **YK-629771**

These ribbon cartridges are normally good for approximately 9,000 stamps. They are supplied sealed in plastic to provide an average shelf life of 2 plus years.

Error Messages

In the event of an error, a message will appear in the display. The possible error messages are listed in the following table along with their probable causes and solutions.



Note – The Reset button is recessed, so it will require using an object such as the tip of a ballpoint pen to press.

Table: Error Messages

Error	Cause	Solution
Er 01	Home Position Error, Carriage Stuck.	Unlock cover and remove. Set TCX-85 on side with the ribbon side up. Press the Reset button to reset the printer carriage and blow air into the printer platen to remove or dislodge jammed objects (i.e., staples).
Er 02	Motor Sensor Error, Carriage Stuck.	Unlock cover and remove. Set TCX-85 on side with the ribbon side up. Press the Reset button to reset the printer carriage and blow air into the printer platen to remove or dislodge jammed objects. If the error reoccurs, check the wires and cables to verify all components are connected properly.
Er 03	Motor Moving Error.	Unlock cover and remove. Press the Reset button to reset the printer carriage and the time should reappear on the display. Replace the cover and try to stamp a card again so you can hear the machine attempting to stamp.
Er 04	Print Buffer Empty.	User has configured clock for symbol printing without entering a symbol for line 1 or line 2. Select a pre-defined print format or re-configure symbol printing.
Er 05	Print Buffer Full.	User has configured clock for symbol printing with more than allowed number of dots per line. This error could also occur with a pre-defined print format and overwriting print/minutes/year format. To correct this problem, select a pre-defined print format or enter less than 160 dots per line. In this instance the clock will ignore the print request and display the error.

TCX-85 Cleaning

Do not use any chemical solvents or oils to clean or lubricate your TCX-85. This will damage your clock. To clean the inside of your clock, simply blow it out with air.

Resetting Clock After Extended Loss of Power

If there has been a AC power interruption sufficient to drain the internal lithium battery, the date setting, the clock setting and the Daylight Saving Time setting will need to be reset.

TCX-85 Power Modes

Power On Mode

During this mode where the clock has power from the AC power adapter, the clock will have all functionality and the display will show the current time, date, weekday, ink level, atomic clock signal level, etc.

Power Off Mode

During this mode where the clock has NO power from the AC power adapter, the clock will have NO functionality and the display will be off. The clock will continue to run on the internal coin battery to retain the correct time and user settings. Upon restoring the AC power, the clock will return to normal operation.



Note – If the clock does not have AC power and the coin battery is removed or dead, the clock will lose all user settings and the time and date will revert to displaying the factory default setting of **JAN 1, 2011, 12:00 AM** when the AC power is restored. The maximum amount of time the clock can preserve the user settings with the coin battery is 2 years

TCX-85 Time Display Modes

The time will always be displayed on the TCX-85 LCD display when the clock is connected to AC power.

12 Hour Format

In the 12 hour time format, the hours will be displayed up to 12 with the letters "AM" or "PM". For example, 12:05AM and 5:25 PM (see Figure).



24 Hour Format

In the 24 hour time format [alias "military time"], the hours will be displayed up to 23. The time after 12 hours would be considered "PM". For example, 17:25 (see Figure) = 5:25 PM, 12:00 = 12:00, 00:01 = 12:01 AM, and etc.



Wall Mounting Template

Use the "Mounting Template" page at the end of the User Guide as a template for wall mounting the TCX-85. Cut out the Figure to use as a template. This figure has been designed, when printed at 100%, to be the correct size for mounting hole placement. However, the mounting hole placement should be verified that it conforms to the listed dimensions.



Note – The optional security screw, if used, must be installed at a downward angle to provide adequate clearance for the cover to fit on properly (see Figure 2 on page 2-26).

Specifications

Power Requirements

For Clock Input:	15 VDC, 1.2A (Max.)
For AC Adapter:	100-240 VAC, 50/60Hz
Battery:	Lithium Battery for Memory Backup in case of power failure (factory installed). Shelf life of 3 years.

Ambient Temperature: -10°C to 45°C (14°F to 113°F)

Ambient Humidity: 10% to 90% (non-condensing)

Clock Accuracy: ± 3 seconds/week on AC Power
± 10 seconds/week on Lithium

Dimensions: 6-11/16"(170 mm) Wide X 6- 7/16"
(163 mm) High X 6-5/8"(168 mm)
Deep.

Weight: Approximately 3.6 lbs. (1.63 kg)

Environment: Indoor use only; dust-free environment. Keep out of direct sunlight.

Standards Compliance:





Search the Knowledge Base

Find answers to frequently asked questions, and general product information such as a more detailed owner's manual for this product at www.amano.com/tkb



Service and Support

Contact us by; phone @ 800 253-9836, Mon – Fri.

8:15 am – 5pm EST

e-mail: tkb@amano.com

Any claim for warranty, expressed or implied, due to the clock's failure to properly receive the radio signal because of interference, whatever the source of this interference may be, are hereby expressly excluded.

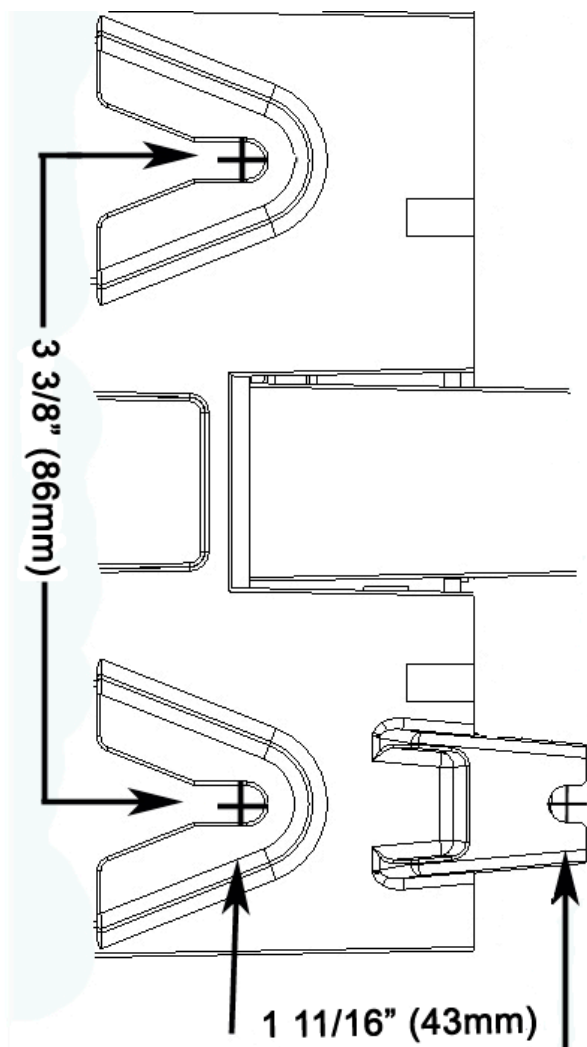
For more information about the WWVB radio signal, actual signal coverage in North America visit NIST's website at:

<http://tf.nist.gov/stations/radioclocks.htm>

For actual signal coverage in North America visit:

www.boulder.nist.gov/timefreq/stations/wwvbcovrage.htm

Mounting Template



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Warranty Information

Limited Warranty Statement: Amano Cincinnati, Inc. warrants this equipment to be free from defects in materials and workmanship for a period of one year from the date of purchase from an authorized distributor. If the equipment fails within the one year period, Amano Cincinnati, Inc. will, at its sole option, replace or repair at no charge, the equipment which, in its sole discretion is determined to be defective.

There are no other warranties expressed or implied and Amano Cincinnati, Inc. disclaims any and all other warranties including, without limitations, implied warranties of merchantability and fitness or a particular purpose. Under no circumstances will Amano Cincinnati, Inc. be liable for consequential, incidental or similar damages, including lost savings, profits or other damages caused by use in connection with the product or the ability to use the product, even if the distributor or Amano Cincinnati, Inc. has been advised of such potential liability or other claims, repair or replacement constitutes your sole and exclusive remedy. Some states do not allow the limitation or exclusion of liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you.

During the one year period of warranty, Amano Cincinnati, Inc., will, at its sole option, replace or repair the returned product at no charge if it is determined by Amano Cincinnati, Inc. that the product has failed due to defects in materials and workmanship. If the failure is for any other reason, Amano Cincinnati, Inc. shall repair or replace the returned product and will charge a fee to cover repair or replacement, handling and service based upon its current price schedule in effect at the time of repair or replacement. Amano Cincinnati, Inc. reserves the right, at its sole option, to replace the returned product with a current product having similar features and functionality as determined by Amano Cincinnati, Inc. You, the customer are responsible for properly packing the product for shipment and for the charges for shipment and insuring the product during shipment to Amano Cincinnati, Inc. Amano Cincinnati, Inc. is responsible for the charges of shipment the repaired or replaced product back to you if it is determined that the product failed due to defects in materials or workmanship. If it is determined that the failure of the product was for reason other than defects in materials or workmanship, the product will be return to you C.O.D. for all charges. If the returned product has been modified without Amano Cincinnati, Inc. written consent or if the failure is the result of misuse, abuse, or misapplication, Amano Cincinnati, Inc. has no obligation to repair or replace the defective product. To obtain warranty service, this registration card must be returned to Amano Cincinnati, Inc. with proof of purchase in the form of an invoice from an authorized Amano Cincinnati distributor. For warranty and non-warranty service, contact the seller from whom you directly purchased the product.

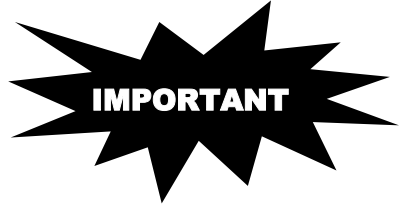
For further instructions, extended warranty, or for the authorized Amano Cincinnati, service, support or parts distributor near you, call (800) 253-9836 or visit www.amano.com

Any replacement or parts become the property of Amano Cincinnati, Inc.

PRODUCT REGISTRATION

Protect Your Investment

Register your product for:



☒ **Product Notifications**

We contact our customers in case of product updates, special offers and promotions.

☒ **Owner Verification**

Registration can serve as verification of your ownership in the event of product theft or loss.

☒ **Efficient Service**

Will help you obtain more efficient warranty service in case there is a problem with your product.

Don't forget

Please take the time to register your product. Registration takes 2 minutes.

AMANO

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