

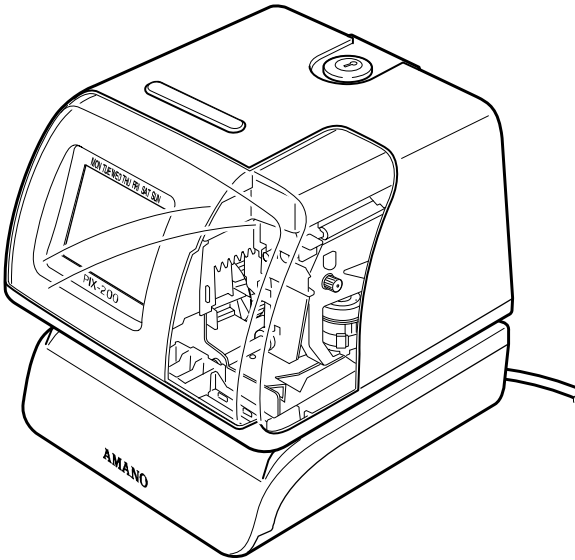
Electronic Time Recorder/Stamp

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# PIX-200

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## Operation Manual



**AMANO®**



# IMPORTANT SAFETY INFORMATION

The precautions stated on this operation manual are categorized by the level and content of danger as follows. Please be sure to read this before using the product.



**WARNING :** This mark shows that there are possibilities that may cause an accident resulting in human serious injury or death if you handle the product incorrectly.



**CAUTION :** This mark shows that there are possibilities that may cause an accident resulting in human injury or property damage if you handle the product incorrectly.

- “Serious injury” includes loss of eyesight, injury, burns (of varying severity), electric shock, bone fracture, poisoning and other that have serious after-effects or any other injury that requires hospitalization and/or prolonged medical treatment.
- “Human injury” includes injuries such as burn injury and electric shock that does not require hospitalization and/or prolonged medical care.
- “Property damage” includes damages to house, household goods, livestock and pets.

## ● Safety Icons Used Throughout This Manual ●



△ This symbol stands for Warnings and Cautions. The specific warning or caution is illustrated within the symbol.



⊘ This symbol stands for prohibited action. The specific action prohibited is illustrated within the symbol.



● This symbol stands for essential requirements and mandatory actions. The specific action required is illustrated within the symbol.

# INTRODUCTION

Thank you for purchasing the Electronic Time Recorder/Stamp PIX 200 from Amano. To ensure safe use of this time recorder/stamp, be sure to thoroughly read this manual before use. After you finish reading this manual, be sure to store this in a safe place for future reference.

## SPECIFICATIONS

This product is supplied with an Approved AC Adapter marked LPS and rated 15 Vdc, 1.6A.

(Reference: Power Supply AC/DC Adapter 100-240VAC, 50/60Hz)

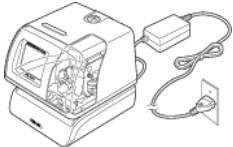


- Power Supply PIX-200: DC15V
- Power Consumption: 1.2A
- Ambient Temperature: -10°C to 45°C (14 deg F to 113 deg F)

Note: In case you are using NiMH battery (Optional Full Power Reserve), the ambient temperature is 0°C to 40°C.

- Ambient Humidity: 10% to 90% RH (non-condensing)
- Dimensions: 159(W)X163(H)X171(D)mm
- Weight: 2.2kg (approximately 4.85 lbs.)
- Environment: Indoor use only; dust-free environment. Keep out of direct sunlight.

## ACCESSORIES

The following accessories are provided for PIX-200 as standard. After unpacking, please make sure that all of the accessories are provided.

 <p>PIX-200(1 unit)</p>	 <p>This operation manual (1 copy)</p>	 <p>Keys (one pair, 2 keys)</p>
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- Please note that specifications, appearance and description are subject to change without notice due to product enhancements.
- This manual has been prepared carefully in every detail, however, if you find any errors or unclear passages, please contact your local dealer.

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# GUIDELINES FOR SAFE OPERATION . . . . .

To ensure safe operation, please carefully read the following warnings and cautions prior to using the PIX 200 Electronic time recorder/stamp.

## WARNING



USE ONLY  
SPECIFIED  
VOLTAGE!

Do not use with any power voltage other than the specified voltage.  
This may cause fire or electric shock.



DO NOT  
OVERLOAD  
THE SOCKET!

Do not overload on a single socket.  
This may cause fire or electric shock.



NO WET  
HANDS!

Do not touch the power plug with wet hands.  
This may cause electric shock.



PROHIBITED!

Do not harm or damage any cords, such as power cord, etc.  
Also, note that putting a heavy object on them, pulling or bending them  
by force will likely damage the power code, which may cause fire or electric  
shock.



DO NOT  
REMODEL!

Do not remodel the unit.  
This may cause fire or electric shock.



UNPLUG !

If any unusual status is found with the unit, such as smoke,  
strange odor, heating or other, immediately disconnect the power  
plug from the outlet and contact your local dealer for servicing.  
If you continue to use the unit, it may cause fire or electric shock.



UNPLUG !

If any object (metal piece, water or other liquid) gets inside the unit,  
immediately disconnect the power plug from the power outlet and  
contact your local dealer for servicing.  
If you continue to use the unit, it may cause fire or electric shock.

## CAUTION



UNPLUG !

Before replacing the ribbon cassette, disconnect the power plug from the  
power outlet.  
Replacing the ribbon cassette while the power plug is connected may cause  
injury or electric shock.

## CAUTION



PROHIBITED!

- Do not place any metallic objects or containers filled with liquid on the unit.

Such objects may fall and/or spill into the unit, and may cause fire or electric shock.



NO MOISTURE  
OR DUST!

- Do not place the unit in the oily smoke, moisture and dusty atmosphere, such as a side of kitchen counter and/or humidifier.

This may cause fire or electric shock.



PROHIBITED!

Replacing the lithium battery with the wrong type of battery could result in explosion. Contact your local dealer for replacement.

When disposing of the used lithium battery, be sure to follow the local government regulations, or contact your local dealer.



PROHIBITED!

- Do not place the unit on unstable surface.

It may drop or fall which could cause injury.



USE A  
FIXTURE!

For the wall mounting, use a proper fixture and tools suited for wall material which support the weight of this equipment enough.

If not, the unit may fall off which could cause injury.



HOLD THE PLUG  
WHEN UNPLUGGING!

- When disconnecting the AC adapter be sure to hold the plug, not the cord. Do not disconnect the AC adapter from the unit for other usage.

Pulling the power cord may damage the cord and it could result in fire or electric shock. Using the AC adapter for other usage may cause fire or damage the other device.



PLACE

The socket-outlet shall be installed near the equipment and shall be easily accessible.

If any unusual status is found with the unit, immediately unplug the power from the outlet.



PROHIBITED!

Although this instruction manual contains the maintenance information that should not be performed by the end user, you may not attempt to service such work yourself.

This may cause injury or electric shock.

### **Electromagnetic Compatibility and the Low Voltage Directive**

This apparatus has been verified for compliance with EU (European Union) directives 89/336/EEC for electromagnetic compatibility (EMC) for operation at 220-240VAC, 50/60Hz and with the low voltage directive 73/23/ECC. It bears the CE mark.

When an apparatus is used in a system, EU directives may require that the system is verified for EMC compliance.

### **Relation to the Health and the Environment**

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

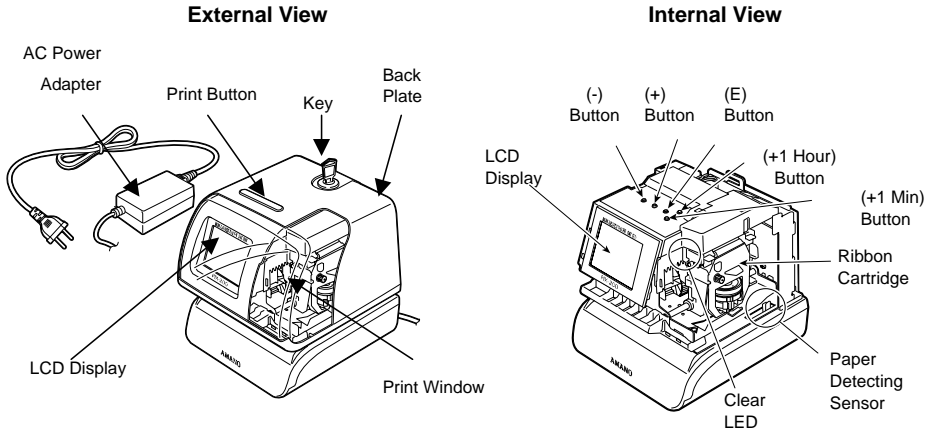


# BEFORE YOU START .....

Before attempting to use the PIX200 time recorder/stamp, please carefully review this section, which covers names and functions of parts, LCD display, print position adjuster, function of 5 control buttons and how to remove the cover and packing material.

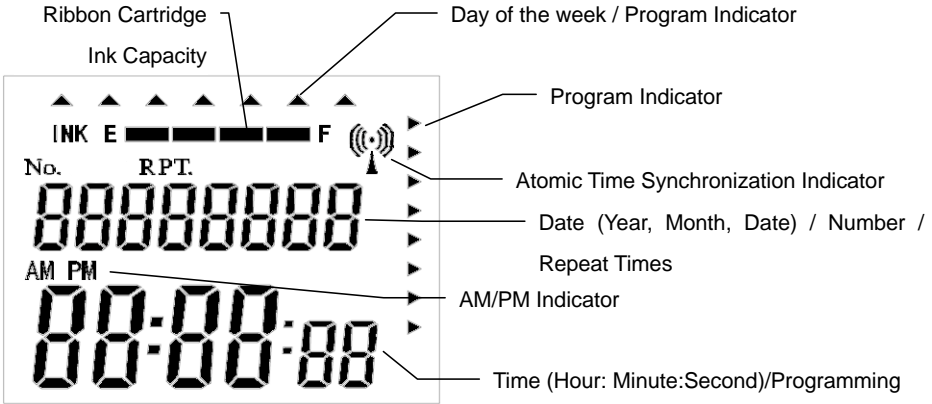
## Names and Functions of Parts

The following describes the names and functions of parts on this unit.



Component Name	Major Function
Key	Use the keys that came with the unit to open the cover
Back Plate	Mount the back plate to the wall when wall mounting the unit
LCD Display	Refer to page 4 "LCD Display"
Print Button	You can press this button to imprint when you choose "manual" or "either" when setting the printing activation. (refer to page 13)
Print Window	Large window for accurate printing position
Buttons	Refer to page 5 "Functions of 5 control buttons"
Ribbon Cartridge	Easy-to-replace ribbon cartridge (refer to page 22)
Clear LED	This illuminates the printing position to increase the level of visibility
Paper Detecting Sensor	There are two sensors which detects the paper to automatically print. (refer to page 13)

# LCD Display

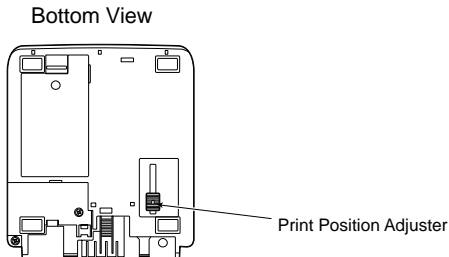


The LCD Display contains an Ink Capacity gauge. This gauge indicates the amount of ink remaining in the ribbon cartridge using four bar segments, from E (Empty) to F (Full).

The PIX-200 calculates the ink capacity of the ribbon cartridge from the number of imprints made. As the ink capacity decreases, the bars in the gauge will disappear. When the ribbon reaches below 25% capacity, the word "INK" and "E" will blink until the ribbon is replaced and the ink counter is reset. (Refer to page 22 for Ribbon Cartridge Replacement and Ink counter reset)

# Print Position Adjuster (Slide Lever)

Print position from the paper edge is adjustable by pressing and sliding the print position adjuster (slide lever) located at the right outside bottom of the unit. The slide lever can be adjusted using the latching function that moves 17 steps by 1.5mm (Total 25.5mm). This adjuster will move the paper-detecting sensor forward or backward and change the margin from the paper edge to the print.



Minimum distance from edge of form to print is approximately 0.5mm-2.0mm. (When you slide the slide lever to the front of the machine) Maximum distance from edge of form to print is approximately +25.5mm from the minimum distance. (When you slide the slide lever to the back of the machine)

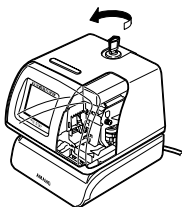


## Functions of 5 control buttons

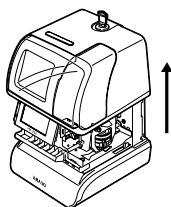
- (-) button      When you press the (-) button, you can decrement the set value or move to the left. You can also change the information on the display.
- (+) button      When you press the (+) button, you can increment the set value or move to the right. You can also change the information on the display.
- (E) button      You can set the value selected on the display by pressing the (E) button. Thereafter you press this (E) button, you can return to the setting mode.
- (+1 HOUR)button      This button advances the hour in the display by increments of 1.
- (+1MIN.) button      This button advances the minutes in the display by increments of 1.

## Removing the Cover & Packing Material

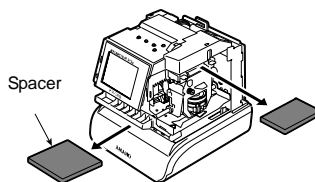
1. Insert the key provided and turn counterclockwise to unlock the cover.
2. Lift the cover to remove.
3. Remove the spacer between the Ribbon Cartridge and the Printer Carriage.



1



2



3

# USING THE TIME RECORDER/STAMP

Make sure the AC adapter is plugged in while you make changes on the settings.

**NOTE:** Once you finish changing the settings, put the cover on to exit from the set up program mode and return to normal operation mode.

**NOTE:** Replacing the cover will also lift up the printer carriage in case it stays down.

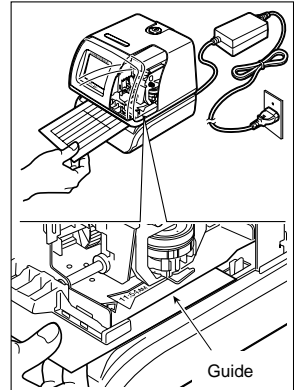
## Making a Test Print

1. Make sure the AC adapter is plugged in.
2. The LED lights up and illuminates the printing position.
3. Insert a piece of paper or time card along the guide.

The unit will automatically print YEAR, MONTH, DATE and TIME with AM or PM (Imprint Format No.3).

IMPRINT SAMPLE; '05JUN 1 3:05PM

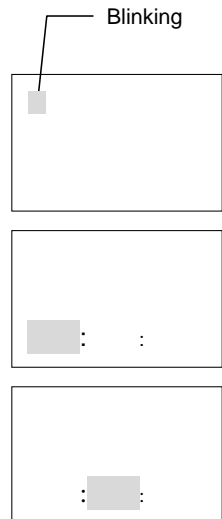
4. If the imprint is satisfactory, the PIX-200 is ready for use.



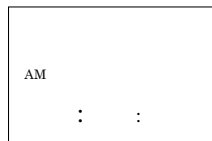
## Setting the Time (If the Time Displayed is Incorrect)

The illustration on the right shows a sample of the display. The shaded area means that the symbols, numbers or characters are blinking.

1. Unlock and remove the cover.
2. Press (+) and (E) button at the same time for 2 seconds.  
The "set up program" display will appear.
3. Press the (E) button to set the Hour. While the Hour display is blinking adjust the hour using (-) and (+) button. Press (E) button to confirm.
4. While the Minute display is blinking, adjust the minute using (-) and (+) button. Press the (E) button to confirm the minute. The seconds will start from "00" at the time you press the (E) button. However, if you do not change the minute, the seconds will not start from "00".



5. The display will return to the clock display. If you need to return to the “set up program” display, press the (E) button again.



NOTE: When you are using the unit in the US, please check if the time zone setting is correct. (Refer to page 20)

NOTE: When the Atomic Clock is built in and you are using the unit in Europe, please check if the Atomic Clock setting is correct. (Refer to page 19)

## Easy Way to Set the Time

If you do not need to adjust the seconds, this will be an easy way to set the time.

1. Unlock and remove the cover.
2. Press (+1 HOUR) to change the hour, and (+1 MIN.) to change the minute. The seconds will not start from “00”. It will continue to advance while you are setting the clock.

## Setting the Date (If the Date Displayed is Incorrect)

1. Unlock and remove the cover.

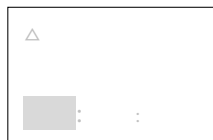
Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.

2. Press the (+) button to position the “▲” under TUE.
3. Press the (E) button to set the Month. While the Month display is blinking adjust the month using (-) and (+) button.  
Press the (E) button to confirm the month.



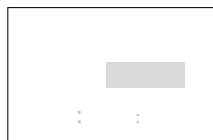
4. While the Date display is blinking, adjust the date using (-) and (+) button. Press the (E) button to confirm the date.



5. While the Year display is blinking, adjust the year using (-) and (+) button. Press the (E) button to confirm the year.



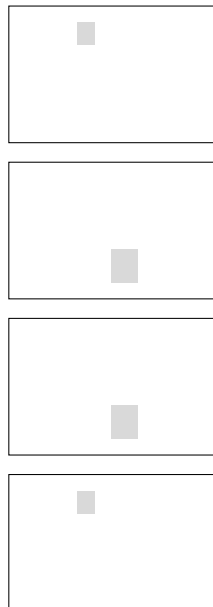
6. You will return to the “set up program” display.



# Setting the Print Order

There are 31 selectable imprint format preprogrammed in the unit.  
(Refer to the diagram below)

- Unlock and remove the cover.  
Press (+) and (E) button at the same time for 2 seconds.  
The “set up program” display will appear.
- Press the (+) button twice to position the “▲” under WED.
- Press the (E) button to select the imprint format. While the imprint number is blinking, adjust the number using (-) and (+) button.  
Press the (E) button to confirm the imprint format.
- You will return to the “set up program” display.



## IMPRINT FORMAT DIAGRAM

Y=Year, M=Month, D=Date, W=Day of the week, h=Hour, m=Minute

s=Second, C=Comment, N=Number (6 digits except No.21 (2 digits) and No. 22 (4 digits))

(Factory Default) No. 3

Code	Imprint Formats	Print Example	Code	Imprint Formats	Print Example
1	Y/M/D hms	/#( " =HA" ~ S~ & #(C@#(f	17	C D hm	EGL 7 ~ S~ & #(C@
2	YMD hms	/#( " =HA" ~ S~ & #(C@#(f	18	YMD C	/#( " =HA" ~ S~ EGL 7
3	YMD hm	/#( " =HA" ~ S~ & #(C@	19	MDY C	=HA" ~ S~/#( " EGL 7
4	MDY hm	=HA" ~ S~/#( " & #(C@	20	DMY C	~ S~ =HV/#( " EGL 7
5	DMY hm	~ S~ =HV/#( " & #(C@	21	N YMD hms	~ S~/#( =HA" ~ S~ & #(C@#(f
6	YMD	/#( " =HA" ~ S	22	N YMD hm	~ S~/#( =HA" ~ S~ & #(C@
7	MD hm	=HA" ~ S~ & #(C@	23	N YMD	~~~~~ S~/#( " =HA" ~ S
8	DM hm	~ S~ =HA" ~ S~ & #(C@	24	N MDY	~~~~~ S~ =HA" ~ S~/#(
9	MD	=HA" ~ S	25	N DMY	~~~~~ S~ S~ =HV/#(
10	W D hm	J8" ~ S~ & #(C@	26	N MD hm	~~~~~ S~ =HA" ~ S~ ~ & #(C@
11	W hm	J8" ~ S~ & #(C@	27	N D hm	~~~~~ S~ S~ ~ & #(C@
12	D hm	~ S~ & #(C@	28	YMD N	/#( " =HA" ~ S~ ~ ~ ~ ~ S
13	hm	& #(C@	29	MDY N	=HA" ~ S~/#( " ~ ~ ~ ~ ~ S
14	C YMD	EGL 7/#( " =HA" ~ S	30	DMY N	~ S~ =HV/#( " ~ ~ ~ ~ ~ S
15	C MDY	EGL 7 =HA" ~ S~/#(	31	N	~~~~~ S
16	C DMY	EGL 7 ~ S~ =HV/#(	32	CUSTOMIZED COMMENTS IMPRINT (Up to 3 Lines)	

\* Refer to page.11 “Setting the Print Pattern” and page. 14 “Setting the number” to change the year digit, print of hyphen, printing type of hour and minutes, language, preprogrammed comment, type of zero, leading zero and digits of number.

# Setting the Customized Comments

Maximum 3 lines comment can be set to print.

The maximum printing length per line is 35mm. You can check the length at the end of the setting.

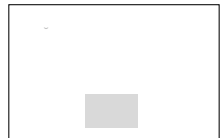
(Refer to page 25 "Diagram of Character Code" to select the character)

1. Follow step 1 to 3 on page 8. At step 3, select 32.
2. Once you confirm 32 by pressing (E) button, the "P1 inPut CodE" display appears.
3. Press (E) button to program the 1<sup>st</sup> line. "Prn LinE 1" display means that you can program the 1<sup>st</sup> line. The "0" on the left side of the Line number shows the printing length of the comment in mm.  
Press (E) button while "1" is blinking.
4. You will see the "LinE1 1" display with "En" blinking. "LinE1 1" means the 1<sup>st</sup> character on Line 1, and "En" means the end of the sentence.
5. Press the (-) or (+) button and select the character code referring to the Diagram of character code (page.25).  
Press (E) button every time you confirm one character.
6. Once you finish selecting the characters for line 1, press (E).  
You will go back to "P1 inPut CodE" Display.
7. To enter the comments on Line 2, Press (E) and press (+) when the line number is blinking. You can program Line 3 by taking the same steps.
8. Once you finish programming Customized Comments, press (E) and Go back to the "P1 inPut CodE" Display.
9. If you want to check the printing length, press (E) button and select the line by pressing (-) or (+) button. You will see the length in mm to the left of the blinking line number.

(The sample display on the right shows that Line 1 is 35mm)

NOTE: When the value exceeds the maximum length, the "error 05" will appear on the display when you put the cover on. (Refer to page 22).

NOTE: You can choose the character font when programming the customized comments. In order to make the imprint clearer, we recommend you to use Two-Byte Font. Please refer to page 26 "Diagram of Font".



### How to Correct Customized Comments

Use below code to correct the customized comments.

Code	Meaning
\a	Insert Character
W	Delete Character
&a	End of the sentence

### How to Change the Font

Use below code to change the font of the customized comments.

Code	Meaning
=	Start Two-Byte
=a	Undo Two-Byte
?	Start Emphatic Byte
??	Start Double-Width Byte
?a	Undo Emphatic/Double-Width Byte
Hh	Undo Space character

### Sample of changing the font of “D” “E” “F” from One-Byte to Two-Byte

ABCDEFGH I → 41, 42, 43, 44, 45, 46, 47, 48, 49

ABCDEFGH I → 41, 42, 43, **in, J**, 44, 45, 46, **in, Jn**, 47, 48, 49

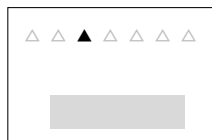
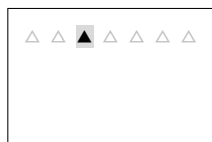
### How to delete the customized comment

When the print line number is blinking, (i.e. Prn LinE 1) press (+1 HOUR ) button for 3 seconds. The blinking will stop and the line number will solidly light up. Once the printing length returns to 0 and the line number starts blinking again, the line you have selected and the lines afterwards will be deleted.

## Setting the Layout of Customized Comments

You can set the layout of Customized Comments to Right Aligned, Centered or Left Aligned.

1. Follow step 1 and 2 on page 9, or continue the steps after 8 of Setting the customized comments (p.9).
2. At the “P1 inPut CodE” display, press the (+) button and the display will change to “P2 Print Layout” display. Press (E) to select the layout.
3. Press (-) or (+) button to select the layout. You can select from “Right”, “Center” or “Left”. Press (E) to confirm your setting.
4. You will go to the “P3 tEst Print” display which is explained below.

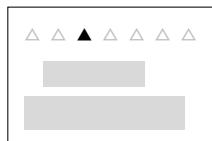


## Test Printing of Customized Comments

1. After confirming the layout, press (E) to test print the customized comments.



- When the “PAPeR button” display is blinking, insert a paper and press (-) or (+) button to test print.
- Press (E) button to end.
- If you would like to return to the “set up program” display, press (E) button at the “P4 End” display.



CAUTION: Touching the printing area while test printing may cause an accident resulting in human injury.

## Changing the Print Position

You can set the print position in two directions. One is to imprint on the left side of the paper, and the other is to imprint on the right side of the paper.

(Factory default is set to Right)

- Unlock and remove the cover.

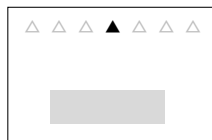
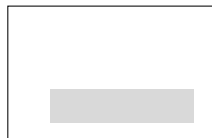
Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.

- Press the (+) button three times to position the “▲” under THU.
- Press (E) button and you will see “Prn PoSn right” blinking.

Press (-) or (+) button to change to “LEFT” .

- Press (E) to confirm the setting, and you will go back to the “set up program” display.



## Setting the Print Pattern

In this setup, the Year digit, the print of Hyphen between month and date, the printing type of Hour, the printing type of Minutes (Refer to page 26 “Diagram of Printing Type of Minutes”), kind of Language, the preprogrammed comment, the type of Zero and the print of Leading Zero can be set.

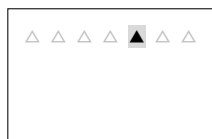
(At the “P1 Print yEAR” display, you can skip to the desired setting by pressing (+) or (-) button)

- Unlock and remove the cover.

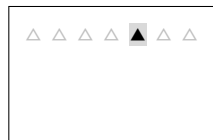
Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.

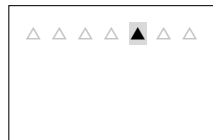
- Press the (+) button four times to position the “▲” under FRI.



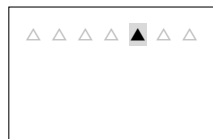
3. Press (E) button and you will see “P1 Print yEAr” display where you can set the year digit. Press (E) again to change the year digit. You can select either “2” digit or “4” digit by pressing (-) or (+) button. Press (E) button to confirm your setting.



4. You will go to “P2 Print HYPHEN” display where you can set the hyphen between month and date. Press (E) again to set the hyphen. You can select either “oFF” or “on” by pressing (-) or (+) button. Press (E) button to confirm your setting.



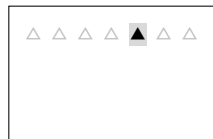
5. You will go to the “P3 Print Hour” display where you can set the printing type of Hour. Press (E) again to change the printing type of Hour. You can select either “12H” or “24H” by pressing (-) or (+) button. Press (E) button to confirm your setting.



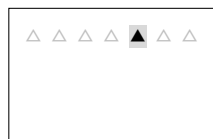
6. You will go to the “P4 Print minut” display where you can set the printing type of Minutes. Press (E) again to change the printing type of Minutes. You can select either “60”, “100A”, “100b(5/100)” or “10” by pressing (-) or (+) button. Press (E) button to confirm your setting.



7. You will go to the “P5 Print LANGu” display where you can set the kind of Language. Press (E) again to change the kind of Language. You can select “English”, “Spanish”, “French”, “German”, “Italian”, “Portuguese”, “roman”, “123456” or “Japan” by pressing (-) or (+) button. Press (E) button to confirm your setting. (Refer to the “Diagram of Preprogrammed Comments & Languages” on page 24)

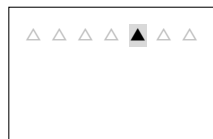


8. You will go to the “P6 Print ConEnt” display where you can set the preprogrammed comment. Press (E) again to change the preprogrammed comment. You can select from number “0” to “12” by pressing (-) or (+) button. Press (E) button to confirm your setting. Please refer to the number and comments below.



	0	1	2	3	4	5	6	7	8	9	10	11	12
Option	EXXiXW	Fxg	9IkX	lB-W	CTW	daYeX	AccebiX	b c X	BeZa	9_X	<a	Bg	HXW
Sample (Eng)	H17	F8G	9187	lB-7	C4-7	6@7	4E7	@@7	EE-A	9:8	<A	BG	H87

9. You will go to the “P7 SLASH ZERO” display where you can set the type of Zero. Press (E) again to change the type of Zero. You can select either “oFF” or “on” by pressing (-) or (+) button. Press (E) button to confirm your setting. (Slash Zero on = Ø)



10. You will go to the “P8 LEAd ZERo” display where you can set the print of Leading Zero. Press (E) again to change the setting.

You can select from “r OFF”, “C OFF”, ”L OFF” or “on” by pressing (-) or (+) button. Please refer to the diagram below to select what you need. Press (E) button to confirm your setting.

Code	Meaning
ba	Print the Leading 0
e <sup>-</sup> B99	Disable 0 and print the number right aligned
6 <sup>-</sup> B99	Disable 0 and print the number centered
? <sup>-</sup> B99	Disable 0 and print the number left aligned



Note: Leading Zero is applied to Number, Month, Date, Julian Date and Hour.

## Setting the Printing Length

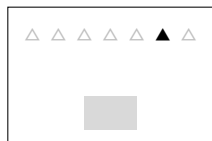
PIX-200 will automatically change the character font when you set the printing length. However, if you have selected to use the Customized Comments, this function is not available. Input the printing length by mm unit. If the value is smaller than the minimum length, you will see an error message (Error 05) when putting the cover on. (The minimum length depends on the imprint format you have chosen, and the maximum length is 35mm)

1. Unlock and remove the cover.

Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.

2. Press the (+) button five times to position the “▲” under SAT.
3. Press (E) button and you will see “Pr LEnth” display where you can set the printing length. You can select the length by pressing (-) or (+) button. Press (E) button to confirm your setting.
4. When an error message (Error 5) appears on the display, change the length and try again.



## Setting of Printing Activation/Detecting Sensor

PIX-200 has two paper detecting sensor which enables to automatically print by simply inserting a card or piece of paper. In this setup, you can select the printing activation as below and detecting sensor method (Use the Center or Edge sensor, Use both sensor or Use the center sensor).

Mode	Code	Description
Automatic	Auto	Will automatically print by inserting a piece of paper/time card
Manual	button	Will print by pressing the Print Button
Either	Au Btn	Will print by pressing the Print Button or inserting a paper/time card

1. Unlock and remove the cover.

Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.



2. Press the (+) button six times to position the “▲” under SUN.

3. Press (E) button and you will see “P1 Print triger” display where you can set the printing activation. Press (E) button and you can select from “Auto”, “button” or “Au Btn” by pressing (-) or (+) button. Press (E) button to confirm your setting.



4. When you see the “P2 PAPER dEtEct” display, press the (E) button.

You can select from “C or E” (Use the center or edge sensor), “CE Edg” (Use both sensor) or “CEntER” (Use the center sensor) by pressing (-) or (+) button.



5. Press (E) button to confirm your setting.

Press (E) again to return to the “set up program” display.

Note: The factory default is set to “Auto”(Automatic) for print activation and “C or E” (Use the center or edge sensor) for detecting sensor.



## Setting the Number

In this setup, you can select the starting number and the digits of printed number. Please make sure that you have selected the imprint format which includes number (Refer to the “Imprint Format Diagram” on page 8) or you have included “number” (Code No.19) when you have programmed the customized comment. (Refer to the Diagram of character code on page 25)

1. Unlock and remove the cover.

Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.



2. Press the (+) button seven times to position the “▲” at the upper right corner.

3. Press (E) button and you will see “P1 Print nubEr” display where you can set the starting number by pressing (E) button. Select the number by pressing (-) or (+) button. To move to the next digit, press (E) button. Press (E) button to confirm your setting.



4. You will see “P2 nubEr digit” display where you can set the digit of the number by pressing (E) button. Select the digit of the number by pressing (-) or (+) button. (The digit is available from 1 to 8) Press (E) button to confirm your setting. Press (E) button again to return to “set up program” display.



# Setting the Initial Number and Auto Reset

In this setup, the number will automatically return to the initial number that you have programmed at the desired time.

1. Unlock and remove the cover.  
Press (+) and (E) button at the same time for 2 seconds.  
The “set up program” display will appear.
2. Press the (+) button eight times to position the “▲” at the second from the upper right corner.
3. Press (E) button and you will see “P1 nubEr initAL” display where you can set the initial number. Press (E) button and you can select the number by pressing (-) or (+) button. To move to the next digit, press (E) button. Press (E) button to confirm your setting.
4. You will see “P2 Auto rESEt” display where you can set the auto reset. Press (E) button and you can select “oFF” or “on” by pressing (-) or (+) button. Press (E) button to confirm your setting.
5. When you select “on”, the display will change to the clock display. Press (-) or (+) button to set the hour and press (E) to move to the minute. Press (E) button to confirm your setting.



# Setting the Repeat Times of Number

In this setup, you can select the repeat times of number. This function is useful when you need to imprint the same number on more than one paper. (Repeat times can be set from 1 to 9)

1. Unlock and remove the cover.  
Press (+) and (E) button at the same time for 2 seconds.  
The “set up program” display will appear.
2. Press the (+) button nine times to position the “▲” at the third from the upper right corner.
3. Press (E) button and you will see “No. rEPEAt” display where you can set the repeat times of number by pressing (-) or (+) button. Press (E) button to confirm your setting.



# Setting the Daylight Saving Time

## Daylight Saving Time Function

- At 2:00am on the beginning day of daylight saving time, the clock automatically gains one hour to show 3:00am. (The clock will change from 1:59am to 3:00am)
- When 2:00am comes on the end day of the daylight saving time, it loses one hour and returns to 1:00am. (The clock will change from 1:59am to 1:00am)
- In the case of Germany, when 3:00am comes on the end day of the daylight saving time, it loses one hour and returns to 2:00am. (The clock will change from 2:59am to 2:00am)

The factory default of DST is as follow. You can set the DST on by setting the begin time and ending time even though the factory default is DST Off.

	With Atomic Clock	Without Atomic Clock
The United States	DST On	DST Off
Germany, UK	DST On	DST On
Japan and Others	DST Off	DST Off

1. Unlock and remove the cover. Press (+) and (E) button at the same time for 2 seconds.

The “set up program” display will appear.



2. Press the (+) button ten times to position the “▲” at the fourth from the upper right corner.



3. Press (E) button and you will see “bEgn04 02 2006” display where you can set the beginning date of Daylight Saving Time. When the month is blinking, press (-) or (+) button to set the month. When the month is set, press (E) button and set the date. Once you set the date press (E) button to set the year.



4. Once you confirm the beginning date by pressing (E), you will see “End 10 29 2006” display and you can set the end date of Daylight Saving Time. Set the Month, Date and Year.

5. Press (E) to confirm the end date and you will go to the “Hour dSt” display where you can set the D.S.T. execution time on the beginning day. Press (-) or (+) button to select the desired hour.



Press (E) to confirm your setting.

Note: If you are in UK, please set the DST execution time at 1:00am.

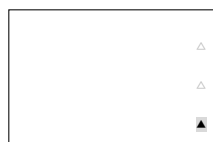
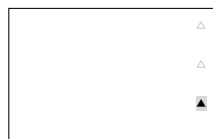
Note: Once the DST is set, the unit automatically updates the settings every year thereafter.

Note: To delete and cancel the daylight saving time setting, put the same date into the beginning date and end date. (Beginning date = End date)

# Setting the Display and Password

In this setup, you can select the display.

1. Unlock and remove the cover. Press (+) and (E) button at the same time for 2 seconds. The “set up program” display will appear.
2. Press the (+) button eleven times to position the “▲” at the fifth from the upper right corner.
3. Press (E) button and you will see “P1 LCd diSPly” display where you can set the display. Press (E) button and you can select either “12-31-06” which displays the Month-Date-Year, or “No.12345678” which displays the number, or “No.123456 RPT.9” which displays the number and repeat times, or “LinE 3” which displays the line number of the customized comment, or “L-6 rAdo” which displays the level of radio wave strength for the atomic clock signal by pressing (-) or (+) button.(The level number will increase when the radio wave signal is stronger) Press (E) button to confirm your setting.
4. When you see the “P2 Hour diSPly”, press (E) button to select either “AM PM 12:00” which is AM/PM display or “23:59” which is 24 hour display by pressing (-) or (+) button. Press (E) to confirm your setting.
5. When you see the “P3 PASS word”, press (E) button to set the password. The first digit will blink and you can select the first digit by pressing (-) or (+) button. Once you select the first digit, press (E) to confirm and select the remaining three digits following the same steps.  
NOTE: When you would like to cancel the password, change the first digit to “-” and the password will change to “----”.



6. After confirming the password, you will see “P4 CloC SynC” where you can set the time zone (US only), select the Official Standard Frequency (Europe) and whether to turn on the Atomic Clock function or not.

## When the unit requires the password

- When you press (+) and (E) button at the same time for 2 seconds to enter the “set up program” display.
- When you press (+1 HOUR) or (+1 MIN.) to change the time.

## In case you forget the password

- You can enter the “set up program” display by entering “1441”. Only use (-) button when you input the password.

# ATOMIC CLOCK FEATURE .....

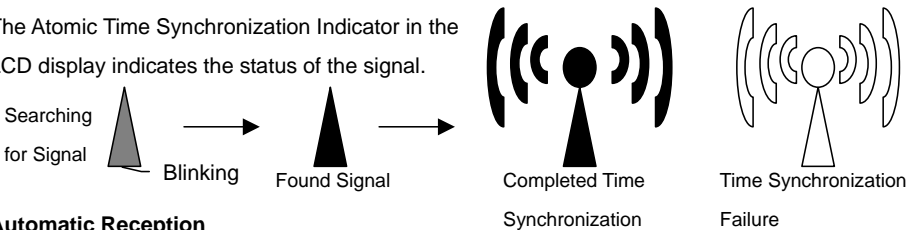
PIX-200 has the atomic clock (radio-controlled clock) feature which displays the current time precisely by automatically receiving time code signals on long wave radio from the transmitting station. The unit receives the time code signal via its built-in antenna system.

PIX-200 can receive standard frequencies from countries listed in the table below.

Country	Official Standard Frequency	Transmitting Station
The United States	WWVB/60kHz	Fort Collins, Colorado
Germany	DCF/77.5kHz	Mainfligen, Frankfurt
The United Kingdom	MSF/60kHz	Rugby
Japan	JJY/40kHz	Fukushima (East Japan)
	JJY/60kHz	Saga (West Japan)

Note: The atomic clock function is only available at the country you have purchased PIX-200.

The Atomic Time Synchronization Indicator in the LCD display indicates the status of the signal.



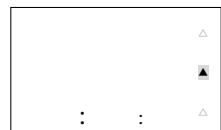
## Automatic Reception

- The atomic clock feature will automatically start searching for time code signals under the following condition when the time displayed on the unit is within  $\pm 15$  minutes from the official standard time of the location. (Refer to the Annex at the end of the manual for details about reception duration)

- 1) Every time you plug in the unit. (It will search signals for 15 minutes)
- 2) Every night starting at 1:15am until 4:00am (For 2 hours 46 minutes) when the unit is plugged.

- When the time displayed on the unit is different more than  $\pm 15$  minutes from the official standard time of the location, you can take one of the following actions.

- 1) Remove the cover and press (-) and (E) button at the same time for two seconds. The “L-0 USA”, “L-0 Geny(Germany)” or “L-0 brtn(UK)” display will appear. Press (+) button and the unit will start searching for time code signals. The level of the radio wave strength will be displayed from “L-0” to “L-6”. “L-6” means that the radio wave is very strong.



Press (E) button to stop searching for time code signals.



2) Change the time by hand. (Please refer to page 6 “Setting the Time” or page 7 “Easy Way to Set the Time)

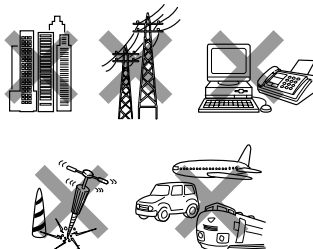
Note:

- When the “Completed Time Synchronization” mark is on, it means that the unit has received the time code signal within 24 hours.
- The clock may display the wrong time. This may happen if it fails to receive radio wave signals properly because of interference, an inappropriate location, or bad radio wave receiving conditions. Should this happen, move the clock to another place such as near a window where it can receive radio wave signals.
- Please face the ribbon carriage side of the unit to the direction of the radio wave signals.
- Even if the clock is unable to receive radio wave signals, its Quartz mechanism will continue to keep the time.

Inappropriate places to keep the unit

Please note that the clock may be unable to receive radio wave signals properly under the following conditions.

- Inside a large building, between tall buildings, underground, building without windows.
- Close to overhead power lines, TV stations and train cables.
- Close to home electrical appliances or OA devices such as TV's, PC's, refrigerators or fax machines.
- Close to furniture made of steel, such as steel desk.
- In places generating radio interference, such as near construction sites, airports or in heavy traffic.
- Inside a vehicle, train or airplanes.



## Setting the Atomic Clock (Germany, UK and others)

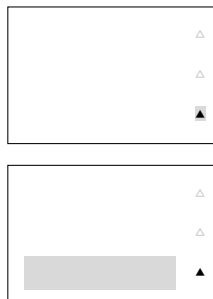
In this setup, you can select DCF in Germany, MSF in UK or disable the Atomic Clock function. The factory default is set to DCF in Germany.

1. Unlock and remove the cover.  
Press (+) and (E) button at the same time for 2 seconds.  
The “set up program” display will appear.
2. Press the (+) button eleven times to position the “▲” at the fifth from the upper right corner.
3. Press (E) button and you will see “P1 LCd diSPly” display. Press



(+) button 3 times to skip to “P4 CloC Sync” display.

- Press (E) button to select official standard frequency or disable the Atomic Clock. If you are in Europe, you can select from “GErAny” (DCF in Germany), “britAN” (MSF in UK) or “oFF” (Disable the atomic clock) by pressing (-) or (+) button. In case of other countries, you can select either “on” or “off” by pressing (-) or (+) button.
- Press (E) button to confirm your setting and you will return to “set up program” display



## Setting the Time Zone (US only)

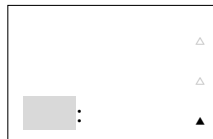
This setup is for US only. In this setup, you can set the time zone or select to disable the Atomic Clock function.

- Unlock and remove the cover. Press (+) and (E) button at the same time for 2 seconds. The “set up program” display will appear.
- Press the (+) button eleven times to position the “▲” at the fifth from the upper right corner.
- Press (E) button and you will see “P1 LCd diSPly” display. Press (+) button 3 times to skip to “P4 CloC Sync” display.
- Press (E) button to set the time zone. When you set the time zone, you need to input the time difference from UTC (Universal Time Coordinated). Please refer to the following chart.



Time Difference from UTC	Time Zone	Major Cities
-5	EST	New York, Boston
-6	CST	Chicago, Houston
-7	MST	Phoenix, Denver
-8	PST	Los Angeles, San Francisco

- When you see the “t ZonE” display where the hour is blinking, select the time difference by pressing (-) button.
- When you need to disable the Atomic Clock function because of failure of radio signal receiving, interference, an inappropriate location, or bad radio wave receiving conditions, please press (-) or (+) button until you see “CLC SynC oFF”. Press (E) button to confirm your setting, and you will go to “P5 End” display.
- Press (E) again to return to “set up program” display.



NOTE: If the unit is unable to receive radio signals, please move the unit to another place where it can receive radio signals.

# INSTALLATION & MAINTENANCE . . . . .

## Wall Mounting

**IMPORTANT!**

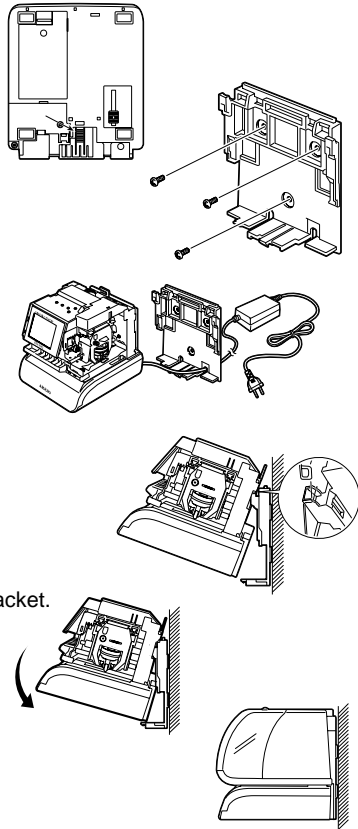
The wall mounting is implemented by our authorized dealers.

This work should not be performed by the customer.

If the PIX-200 is insufficiently mounted, it may fall, resulting in damage to the unit or a personal injury.

When mounting the PIX-200 on a concrete wall or other special wall material, prepare special screws.

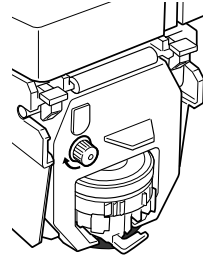
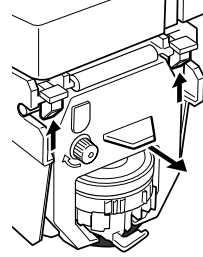
1. Remove the cover and remove the back plate by pressing the tab.
2. Using the back plate as a template, mark the lower mounting hole on the wall.
3. Mount the plate using a #10 wood screw (or equivalent).
4. Level the back plate and mark the location of the two upper mounting holes. Secure to the wooden wall thicker than 10mm wall using #10 wood screws (or equivalent).
5. Feed the cable of AC power adapter through one of the holes in the back plate.
6. Align the clock with the two upper tabs on the back plate. Tilt the back of the clock upwards to fully insert the back plate tabs into the clock. Be careful not to pinch the power cord with the bracket.
7. Once the tabs are inserted, tilt the clock back down and push it against the wall. The tabs will snap into place.
8. Replace the cover and lock it in place.



# Ribbon Cartridge Replacement

**NOTE:** Before replacing the ribbon cartridge, disconnect the power plug from the power outlet.

1. Remove the cover.
2. Pull the two ribbon release tabs upward.
3. While holding the release tabs in an upward position, pull the ribbon cartridge out of the cradle.
4. Insert a new ribbon underneath the printer head as shown.
5. Turn the knob on the cartridge clockwise one turn to take up any slack in the ribbon.
6. Connect the power to the outlet.
7. Reset the INK capacity gauge by pressing the (+) and (-) buttons at the same time for more than 2 seconds.
8. Replace the cover.
9. Check the printing quality to confirm that you have installed the ribbon properly.



# Error Codes

In the event of an error, an error code will appear in the display. The error codes are listed below along with their possible causes and solutions. The error code will be displayed for 2.5 seconds.

Error Display	Cause	Action
8eebe #%	Home Sensor Error when starting imprint	Unplug the time recorder/stamp and make sure that the carriage is not stuck or jammed. Also check to see that the ribbon cassette is correctly inserted in place. Unplug the clock and plug it back in.
8eebe #&	Timing Sensor Error	
8eebe #	Home Sensor Error when finishing imprint	Change the print length by adjusting Year Digit, Type of Hour, kind of Languages and Number Digit
8eebe #{	Printing Length Setting Error	

If the error does not dissappear, please contact your local dealer.

## Cleaning

For cleaning, unplug the power plug and wipe the case with a dry cloth. Do not use any chemical solvents or oils to clean or lubricate your PIX-200. This will damage your time recorder/stamp.

To clean inside of your unit, blow the dust and dirt out with air.

# APPENDIX

## Diagram of Preprogrammed Comments & Languages

	=TcTaXF	8aZ\_f[	FcTaVf[	9eXaV	: Xe`Ta	<gT\_Ta	CbghZhXF	Eb`Ta`ab	Ah`UkE
@baW		@B	?H	?H	@B	?H	F:		\$
ChXF		GH	@4	@4	7<	@4	GE		%
JXWXF		J8	@c	@B	@c	@B	DH		&
Q hefW		G	=H	=8	7B	:<	D<		'
9e\W		9E	I<	I 8	9E	I 8	FK		(
FTgheW		F4	F4	F4	F4	F4	F5		)
FhaW		FH	7B	7<	FB	7B	7B		*
=TahTel	S	=4A	8A8	=4A	=4A	: 8A	=4A		\$
9XLehtel	%	985	985	98I	985	985	98I		%
@TeV	&	@4E	@4E	@4E	@4E	@4E	@4E		&
4ce\_	'	4CE	45E	4I E	4CE	4CE	45E		'
@l	(	@4L	@4L	@4<	@4<	@4	@4<		(
=haX	)	=HA	=HA	=HA	=HA	: <H	=HA		)
=h_l	*	=HP	=HP	=HP	=HP	?H	=HP		*
4hZhf g	+	4H	4 B	4BH	4H	4: B	4: B		+
FxcgX Ue	,	F8C	F8C	F8C	F8C	F8G	F8G		,
BvghUe	S#	B6G	B6G	B6G	B>G	BGG	BHG		S#
Abi X Ue	SS	ABl	ABl	ABl	ABl	ABl	ABl		SS
7XX Ue	S%	786	7<6	786	78M	7<6	78M		S%
eXXi XW	E6I 7	E6I 7	E657B	E86H	8<A	E<66I	E657B	E6I 7	E6I 7
fXag	F8AG	F8AG	8AI 7B	8AI	4HF:	FC87	8AI 7B	F8AG	F8AG
YlkXW	94K87	94K87	94K	94K8	94K	94K	94K	94K87	94K87
i b\W	I B<7	I B<7	4A?7B	4AAHP	?4 8E	4AAHP	4AHP	I B<7	I B<7
cTW	C4<7	C4<7	C: 47B	C4L8	58M	C4: 4	C4: B	C4<7	C4<7
VbaYe` XW	69@7	69@7	6BA9	6BA9	8@C9	6BA9	6BA9	69@7	69@7
TccebI XW	4CE7	4CE7	4C57B	4CCE	58FG	4CCE	4CEI	4CE7	4CE7
Vb`c`XgXW	6@C?7	6@C?7	CE@7B	C8E@	45 8F	6@C?	C8E@	6@C?7	6@C?7
be\Za	BE<: A	BE<: A	BE<: A	BE<:	BE<:	BE<:	BE<:	BE<: A	BE<: A
Y\_X	9<?8	9<?8	4E6	9<6	4<G8	9<?8	4EDI	9<?8	9<?8
\a	<A	<A	8AGE4	8AGE8	>B@@C	8AGE4	8AGE4	<A	<A
bhg	BHG	BHG	F4?<7	FBEG<	: 8 G	HF6<G	F4?<7	BHG	BHG
FXW	HF87	HF87	HG<?	HG<?	: 85E4	HG<?	HG<?	HF87	HF87

## Diagram of Character Code

The alphanumeric characters on the upper row are for the second digit of the code and the ones on the far left column are for the first digit of the code.

(i.e.) If you want to program

"(Year)(Month)(Date)(SP)(Hour)(:)(Minute)(AM/PM)(SP)(A)(M)(A)(N)(O)"

the code will be; 10,11,12,20,13,3A, 14,1C, 20,41,4D,41,4E,4F

IMPRINT IMAGE: '05DEC15 8:23AM AMANO

Space Character

d/u	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	En	(Year)	<b>SP</b>	0	@	P	`	p	I	受		Λ				
1	dL	(Month)	!	1	A	Q	a	q	II	領	。	三				1 Dot SP
2	in	(Date)	"	2	B	R	b	r	III	収	「	Π				2 Dot SP
3		(Hour)	#	3	C	S	c	s	V	検	」	Σ				3 Dot SP
4		(Minute)	\$	4	D	T	d	t	X	付		Φ				4 Dot SP
5		(Second)		5	E	U	e	u	-	年	.	Ψ				5 Dot SP
6		(Day of the week)	&	6	F	V	f	v	'	月	€					6 Dot SP
7		(Week No.)	'	7	G	W	g	w	"	日	Ä					7 Dot SP
8		(Julian Date)	(	8	H	X	h	x	€	平	ø					8 Dot SP
9		(Number)	)	9	I	Y	i	y	¥		Ö					9 Dot SP
A		(Repeat Time)	*	:	J	Z	j	z			Ä					J
B		(Preprogrammed Comment)	+	:	K	[	k	{			É					Jn
C		(AM/PM)	,		L	\	l				Ä					L
D			-		M	]	m	}			Γ					LL
E			.		N	^	n	~			Δ					Ln
F			/		O	_	o				Θ					Un

Code	Meaning
\a	Insert Character
W	Delete Character
&a	End of the sentence

Code	Meaning
=	Start Two-Byte
=a	Undo Two-Byte
?	Start Emphatic Byte
??	Start Double-Width Byte
?a	Undo Emphatic/Double-Width Byte
Hh	Undo Space character

Note: Space Characters in the bold square shown above will not be recognized as One-Byte Font (7 dots in width) but recognized as a narrow font (5 dots in width). When you put "Un" before the space character when changing the font size, the font will be bigger. Please refer to page 26 "Diagram of Font"

### Diagram of Font

The maximum dots which fits in one line is total 148 dots.

	Character	Font	Dots	Character Code	
I	Common One-Byte	One-Byte	7	From 10 to 89, A1 to A4 (Excluding IV,V, VI)	
		Emphatic	8		
		Double-Width	13		
II	Common Two-Byte	Two-Byte	9		
		Emphatic	10		
		Double-Width	17		
III	Special Symbols	Two-Byte	9		From A6 to B5
		Emphatic	10		
		Double-Width	17		
IV	Space Character		+ "Un"	Characters in the Bold Square (Refer to page 25)	
		---	5		7
		Emphatic	6		8
		Double-Width	9		13
V	Second	One-Byte	7	15	
VI	AM/PM	Fixed	13	1C	
VII	Chinese Character	Fixed	10	From 90 to 98	

### Diagram of Printing Type of Minutes

Min	0	1	2	3	4	5	6	7	8	9	25	26	27	28	29	30	31	32	33	34	35	51	52	53	54	55	56	57	58	59
60 (1/60)	00	01	02	03	04	05	06	07	08	09	25	26	27	28	29	30	31	32	33	34	35	51	52	53	54	55	56	57	58	59
10 (1/10)	0	0	0	0	0	0	1	1	1	1	4	4	4	4	4	5	5	5	5	5	5	8	8	8	9	9	9	9	9	9
100B (5/100)	0	0	0	05	05	05	10	10	10	15	40	40	45	45	45	50	50	50	55	55	55	85	85	85	90	90	90	95	95	95

100A = One hour (3,600 seconds) is divided by 100 and the minutes are printed in 00-99 range.

The minute increments by 1 every 36 seconds and seconds are printed in 00-35 range.

60th (min,s)	100A (min, s)
:00 00s	.00 00s
...	...
:00 35s	.00 35s
:00 36s	.01 00s
:33 00s	.55 00s
:33 01s	.55 01s
...	...
:33 35s	.55 35s
:33 36s	.56 00s
:59 24s	.99 00s
...	...
:59 57s	.99 33s
:59 58s	.99 34s
:59 59s	.99 35s

The minute increments by 1 every 36 seconds

$$33 \text{ minutes} = 33/60 * 100 = 55$$



**(Annex)**

**PIX-200 ATOMIC CLOCK/Time code signal reception duration**

The target duration of PIX-200 to receive time code signals is as follow.

- When the radio wave condition is good, it will take about 3 minutes until it completes time synchronization.
- At the automatic reception every night (from 1:15am to 4:00am), it may take up to 166 minutes to complete time synchronization depending on the radio wave condition.
  
- When the radio wave condition is bad,
  - 1) At the automatic reception every night, it will discontinue the reception when it passes 166 minutes (4:00am)
  - 2) At the automatic reception when you plug in the unit, it will discontinue the reception after 15 minutes.
  - 3) When you manually start reception, it will continue to search for time code signals forever.  
(Please refer to page 18 of the operation manual to see how to start reception manually.)

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