AMANO
CINCINNATI

ELECTRONIC TIME RECORDER

PIX - 3000X SERIES

OPERATION MANUAL
ENGLISH VERSION

SPECIFICATIONS

Power requirements: AC 100/120/220/240 V± 10%, 50/60 Hz

Power consumption: Normal 3W, maximum 6W

Ambient conditions: Temperature: -10°C to 45°C (14°F to 113°F)
Humidity: 10% to 90% (non condensing)

Dimensions: Width 150 mm x Height 176 mm x Depth 153 mm
(Width 5.9 in x Height 6.9 in x Depth 6.0 in)

Weight: 2.3 kg (5 lb.)

Power reserve: The built in batteries, when fully charged, will maintain normal operations for 72 hours or 400 prints, and maintain time and date for 7 days.

Environment: Indoor use only
Dust free
Not in direct sunlight

Languages	J1	J2	J3	J4
English	1	1	1	0
French	0	1	0	0
Spanish	1	0	0	0
German	0	0	1	0
Roman	1	0	1	0
Italian	0	1	1	0
Common (Numeric)	0	0	0	0

1 = Jumper connected, 0 = no jumper

HOW TO USE THIS MANUAL

New installation

Read chapter one first. Once you have obtained a print out, read chapter two to choose the best method for your application. Refer to chapter three to set the initial values such as time, date, number and alpha symbol.

Reinstallation

Read **most** of chapter one. Make sure the battery is connected. If you plan on changing the way the machine prints see chapter two. Chapter three may need to be looked at if the program was lost or the time and date is incorrect.

For further information , see the sections at the beginning of each chapter, WHAT YOU WILL LEARN IN THIS CHAPTER and WHAT TO DO.

Chapter 1 **Getting Started** shows you the basic operations of the time recorder. You will learn how to mount it on the wall, connect the batteries, and print. By the end of chapter one you will be ready to use the machine.

Chapter 2 **Printing** gives you an in-depth descriptions and explanations of the printing operations of the PIX-3000X series time recorder. It gives you instruction on how to set up the dip switches which dictates print styles, printing methods, print margin adjustment, alpha symbol feature and the use of different print media.

Chapter 3 **Programming** explains the use of the front panel and how to enter and exit program mode which will allow you to change the time, date, adjust for daylight-saving time, incorporate alpha symbol printing and numbering. After reading this chapter you will be able to alter any one of these values with ease.

Chapter 4 **Maintenance** provides instruction for keeping your PIX-3000X series time recorder operating properly. A period maintenance schedule will help insure that your equipment will operate properly on a continuous basis.

CONTENTS

CHAPTER 1 GETTING STARTED

CHAPTER 2 PRINTING

CHAPTER 3 PROGRAMMING

CHAPTER 4 MAINTENANCE

GETTING STARTED 1

1-1 WHAT YOU WILL LEARN IN THIS CHAPTER

This chapter shows you how to identify the different parts and accessories of the PIX-3000X time recorder (see section 1-4). It will also show how to remove the cover and packaging materials. You will get an in-depth description of how to mount the PIX-3000X on the wall, connect the batteries, and how to make it print.

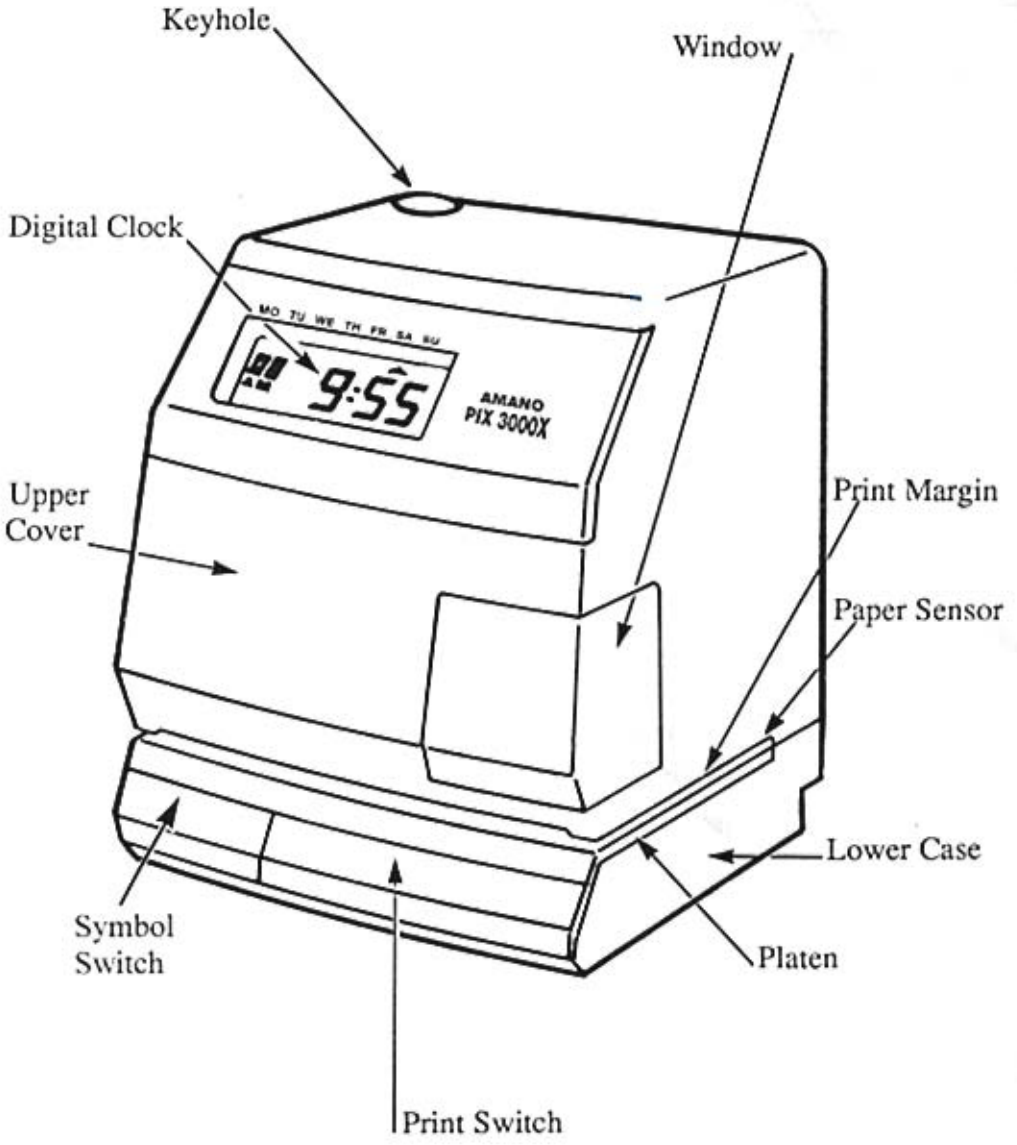
1-2 WHAT TO DO

1. To Get Started, you need to take a brief look at the external view, check the accessories, and remove the cover (see section 1-5). Being a new machine, make sure any and all packaging material is removed from the printing mechanism before powering up the PIX-3000X (see section 1-6).

2. Before Printing, you need to decide on a location which is indoors, dust free and out of direct sunlight. If you plan to mount the PIX-3000X to the wall, leave the cover off and proceed to section 1-7. When choosing to wall mount the unit, select a wall capable of supporting the unit. Since it is difficult to connect the batteries once the unit is wall mounted, it is recommended to connect the batteries prior to placing the main case on the wall bracket (see section 1-8). However, when doing this, set the Print Method to "Paper Detect and Print Switch" (see section 2-6) to avoid accidental printing. **Accidental printing when no paper is present can result in damage to your machine.**

3. Printing, the first time you print, please reference Section 1-9 on How To Get A Print Out. The section describes the various formats and imprints which your PIX-3000X is capable of generating.

1-3 EXTERNAL VIEW

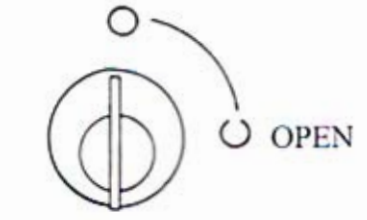


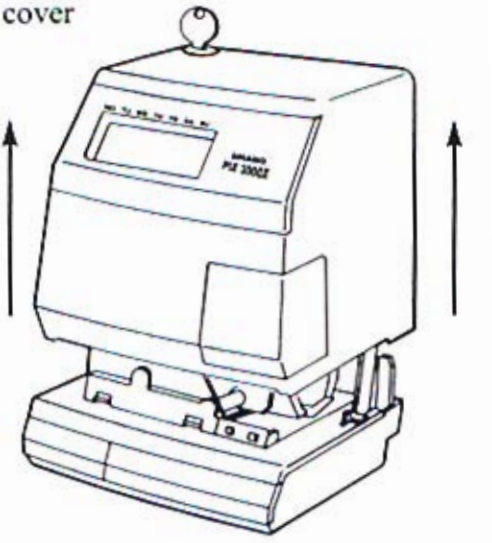
1-4 ACCESSORIES

1. Key ..... 1 set (2 Keys)
2. This Manual

1-5 REMOVING THE COVER

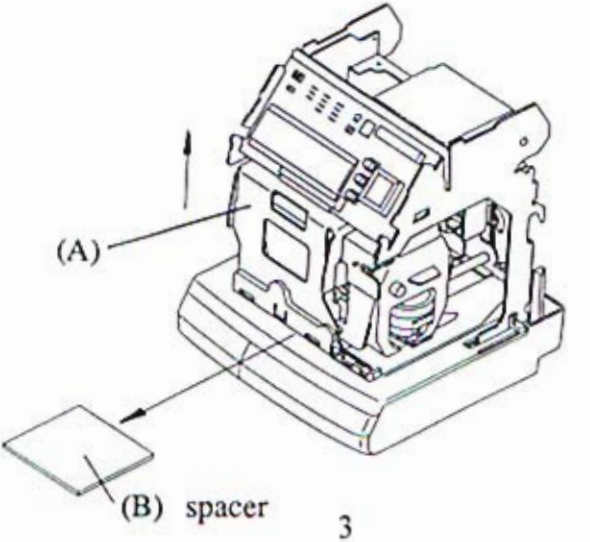
Turn key Clockwise to remove cover





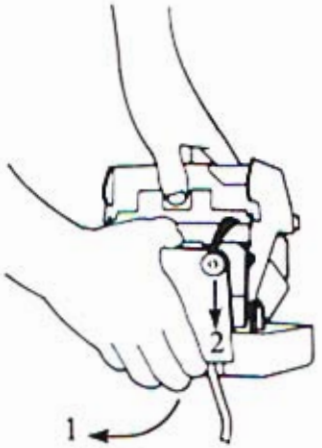
1-6 REMOVING PACKAGING MATERIAL

Lift up (A) Printer Block and remove (B) packaging spacer.

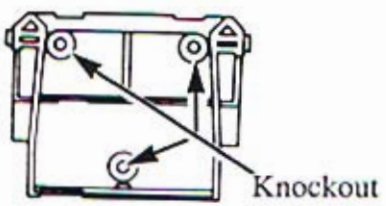


1-7 WALL MOUNTING

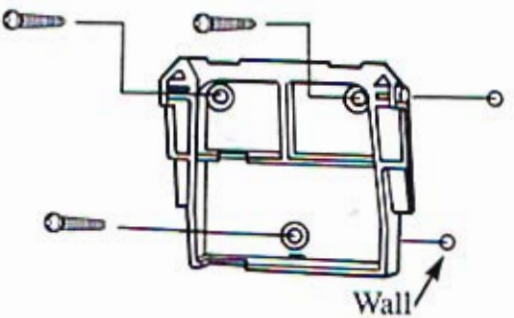
1. With the cover case removed, the wall mount plate can be removed by using index finger as shown below to pry open the bottom portion. See arrow 1. Then slide the wall mount plate down in the direction of arrow 2.



2. Knock out the three holes in the mounting plate.

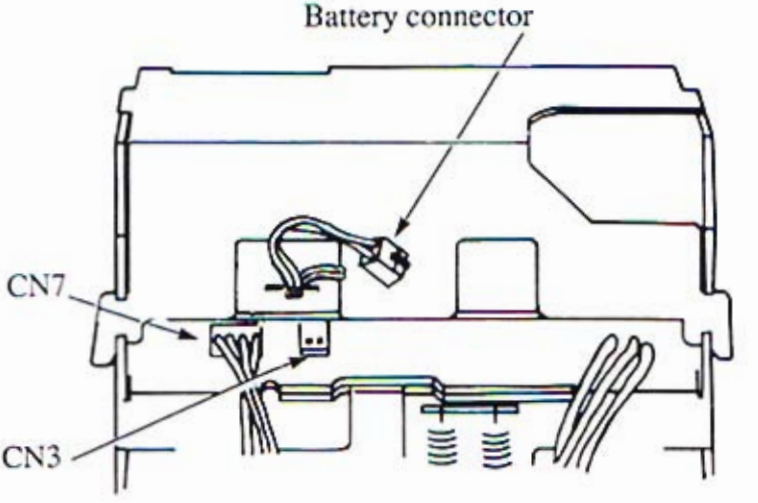


3. Mount the plate on the the wall using three #10 screws or equivalent.



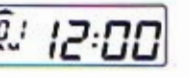
4. Align the PIX with the hooks on the mounting plate. Press the PIX down and toward the wall until a "CLICK" is heard. Replace the over case, lock it and remove the key. Then your PIX-3000X is now mounted.

1-8 CONNECTING THE BATTERY



1. Connect the black and red wires from the battery into pin connector CN3.
2. Plug the AC power cord into a wall socket.

- Display will show Jan. 1,1990 AM 12:00



- Colon will flash

NOTE: When AC power is not connected properly the colon will not flash. (See section 4-3, Error Messages).

NOTE: The battery is fully charged prior to shipping, however, to insure premium performance it is recommended that the battery be fully charged prior to use (approx. 24 hrs).

NOTE: To avoid damaging the power reserve battery, or draining to an unrecoverable level, keep machine plugged into a AC power source during normal operation. The power reserve battery is used for limited power outages, not as a power source during normal operations.

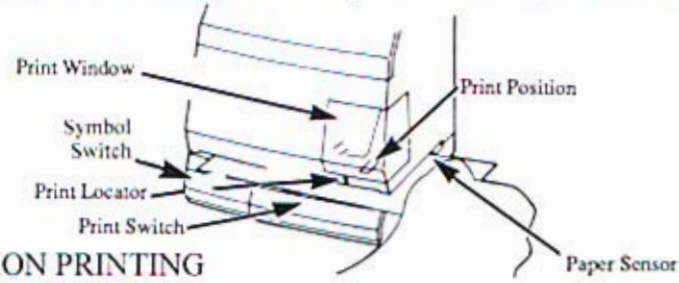
1-9 HOW TO GET A PRINT OUT

CHECK THE FOLLOWING PRIOR TO PRINTING

1. Is all the packaging material removed from inside the machine? (1-6)
2. Are the batteries connected? (1-8)
3. Is the ribbon cassette properly set in the machine? (4-6)
4. Is the cover case securely on the unit?
5. Is the PIX plugged into an AC wall outlet?

YOU ARE NOW READY TO PRINT

1. Holding an edge of a time card or paper, insert in front of PIX as shown below.
2. Push card or paper all the way to the back, keep the paper horizontal to the front of the PIX, until it hits the Paper Sensor.
3. If the PIX did not print, press the "PRINT' switch (see section 1-3), continuing to hold the paper against the Paper Sensor.
4. If it did not print please review the above items and check for problems or missed procedures (See section 4-3, Error Messages).



PRECISION PRINTING

1. Holding an edge of the paper / card begin to insert it in the front of the PIX using the "Print Alignment Indicator" (1-3) to position the paper for imprint placement.
3. As the paper is being inserted, look through the Print Window at the "Internal Print Alignment Frame" (1-3) for final imprint placement.
4. Adjust the paper until the "Internal Print Alignment Frame" is aligned over the area to be printed on.
5. Push the paper all the way back , until it contacts the Paper Sensor.
6. If it did not print, while still holding the paper in position, press the Print Switch.

PRINTING

2-1 WHAT YOU WILL LEARN IN THIS CHAPTER

This chapter will teach you how to set up the PIX-3000X time recorder to best meet your application needs.

2-2 WHAT TO DO

1. **Choosing Print Media (see section 2-3 for definition)** This decision should be the first thing accomplished. Typically, the print media has already been determined prior to purchasing the PIX. To avoid print problems please verify that the media selected is within the specifications listed in section 2-3.

2. **Choosing Print Style,** before setting up the PIX-3000X it should be decided on what information needs to be printed. It is recommended that the machine be set to print only the essential information. (The style and information required for printing should be verified to fit on the selected media.) The PIX-3000X allows for several different formats. The standard format prints pre-determined styles. The Advanced formats allows the imprint to be custom configured. Please refer to section 2-8 for standard format set up, and section 2-7 for the advanced.

3. **Choosing a Margin** Depending on the Print Media selected and the Style, the margin may need to be adjusted. They can be adjusted once the style has been setup. The size and length of the imprint is determined by what information and type selected.

4. **Choosing Right or Left Print,** is determined by the application or media which will be used. The Right/Left refers to the direction the print will be read once printed. If the wrong setting is selected and the print appears upside down for your media, it can be changed (See section 2-10).

5. **Choosing Print Method,** the PIX allows for three variations of print operation. Fully automatic (paper detect), manual with paper detect and manual. Depending on your application, select the most effective method for your applications. (See section 2-6)

6. **Choosing the sequence of Month, Date, Year and Time** depends on the way the Print Style was setup, either standard via Dip Switches or Advanced using the Character table. The sequence in which the Month, Date, Year, Time and Symbol will appear is programmable. For DIP Switch adjustment refer to section 2-9, and for Advanced Character table adjustment refer to section 2-7.

7. **Choosing the type of Hours,** has to do with the application of the time recorder. The choice is between Military time (0:00 - 23:00) or standard AM/PM time (12:00-12:00). Refer to section 2-11 for standard DIP Switch settings, for Advance refer to the Character Table in section 2-7. If the PIX is being used as a payroll recorder for calculation, Military time is typically preferred.

8. **Choosing the type of Minutes / Seconds,** as above, relates to the specific application. The choices are Regular minutes (:00-:59), 100ths of a minute A (.00-.99), 100ths of a minute B (.00-.95) and 10ths of a Minute (.0-.9). Refer to section 2-12 for standard DIP Switch settings, or for Advanced, refer to the Character Table in section 2-7. If the PIX is being used as a payroll recorder for calculation, 100ths or 10ths of minutes is typically preferred.

2-3 USING DIFFERENT PRINT MEDIA

Print Media is defined as the type of record you will be using the machine to time stamp. (ie. time cards, mail, etc.) To avoid damaging the print head it is recommended not to exceed a media thickness of 0.3 mm. The following is general specifications for different paper and media dimensions.

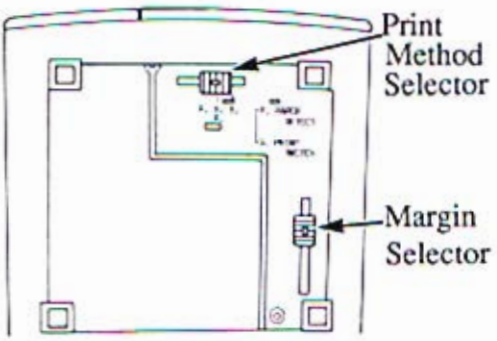
Time Card: Time card thickness less then or equal to 0.3 mm. Printing along one side.

Small Ticket: Tickets, Slips, Receipts or other validations media should be no smaller then 100 mm x 60 mm. (Length 4" x Width 2.25")

Larger Paper: When using standard paper sizes, such as 8.5" x 11", make sure the paper is heavy enough to push the Paper Sensor. If the weight of the paper (thickness) is to light the paper will curl up and tear off inside the PIX. This may result in jams or damage to the PIX.

Carbon Paper: The PIX will print on both Carbon and Carbonless paper, the imprint will print through up to six copies, depending on the quality of the document used. Carbon and Carbonless paper deteriorates over time. This process is accelerated by humidity, high temperature and sun light. For maximum print performance, use only high grade, uncontaminated carbon or carbonless paper.

2-4 BOTTOM VIEW



2-5 MARGIN ADJUSTMENT

1. Locate the **Margin Selector,** on the bottom of the machine (see section 2-4). Moving this Selector forward or backward will determine how much of a margin there is between the imprint and edge of the print media.

NOTE: The margin can be adjusted to a maximum of 30 mm (1.2" inches).

2-6 PRINT METHODS

There are three Print Methods available. Once you have selected the desired method, locate the selector on the bottom of the machine, move it to the correct position.

- **Paper Detect Only (P.)** can be selected when speed and ease of use is most important. When the Paper Sensor detects an appropriate media, it will automatically engage the print mechanism.
- **Paper Detect and Print Switch (S.P.),** can be selected when print accuracy is most important. In order to engage the print mechanism, both the Print Sensor and the Print Switch Bar must be depressed simultaneously. This allows you to first align the media to verify the print location and once confirmed, press the Print Switch Bar to print.
- **Print Switch Only (S.)** can be selected when custom alignment printing is important. This method allows the media to be positioned diagonally, on a specific edge or corner in such a fashion that the Paper Sensor is not being depressed. Once the media is positioned, the Print Switch Bar can be depressed and the print mechanism will engage.

NOTE: Printing when no media is present may cause severe damage to the print head.

2-7 About Alpha Symbol Print Method

The Alpha Symbol Printing Advanced Settings, allows for custom definition of imprint. By selectively programming character strings a variety of imprints can be created. The following character table shows the valid codes used to program the imprint. When the Alpha Symbol Print Method is used, the standard DIP switch Method is overridden. If the Advanced method is not used the DIP switch settings will determine the Print Method.

Why should Alpha Symbol Print Method be used? It is recommended to print only the information needed to get the job done, the majority of which the standard Print Method will accomplish. But, there is always an exception to the rule and that is what the Alpha Symbol Advanced Setting Feature is for. For example, depending on your specific applications, it may be important to be able to identify each location. Using the Alpha Symbol Method, a location code can precede the date and time. Other applications can include a floor number, department number, job number, workstation code, bank teller number, trader code, branch name or any other identifier which is unique. Since, the Character Table allows you to basically create almost any imprint, the only limitation is the number of characters which can be programed. In the program section the amount of characters (%) will be defined, but as a general rule approximately 15 characters per symbol line can be programmed.

Symbol 1 or Symbol 2? The PIX-3000X can print two imprint lines. One line via normal operations and the other requires the symbol switch to be depressed. To accomplish 2 lines of print it is necessary to insert the paper twice and shift position so lines do not overprint. The following chart shows how a combination of normal and advanced Print Method can be used together to generate an imprint. Remember Symbol 2 requires the symbol switch bar (1-3) to be depressed to print that line.

Symbol 1		Not Used	Programmed	Not Used	Programmed
Symbol 2		Not Used	Not Used	Programmed	Programmed
Symbol Switch	Inactive	DIP Setting	Symbol 1 Setting	Dip Setting	Symbol 1 Setting
	Active	DIP Setting	DIP Setting	Symbol 2 Setting	Symbol 2 Setting

2-7A CHARACTER TABLE

1. This table is used to design Symbol 1 and Symbol 2. Each symbol has a 99% capacity. Notice, that each character has a percentage and a length associated with it. Maximum Symbol Length is 150. To determine if your desired Symbol will print, add the lengths together. They should total less than 150 or, if percentages, total less then 99%

2. Please notice that YEAR, MONTH, DATE, DAY and TIME Formats are one program code but represent larger lengths and percentages.

CHARACTER	SMALL		LARGE (BOLD)	
	CODE	LENGTH	CODE	LENGTH
0	0	07 = 4.67%	50	10 = 6.67%
1	1	07 = 4.67%	51	10 = 6.67%
2	2	07 = 4.67%	52	10 = 6.67%
3	3	07 = 4.67%	53	10 = 6.67%
4	4	07 = 4.67%	54	10 = 6.67%
5	5	07 = 4.67%	55	10 = 6.67%
6	6	07 = 4.67%	56	10 = 6.67%
7	7	07 = 4.67%	57	10 = 6.67%
8	8	07 = 4.67%	58	10 = 6.67%
9	9	07 = 4.67%	59	10 = 6.67%
A	10	07 = 4.67%	60	10 = 6.67%
B	11	07 = 4.67%	61	10 = 6.67%
C	12	07 = 4.67%	62	10 = 6.67%
D	13	07 = 4.67%	63	10 = 6.67%
E	14	07 = 4.67%	64	10 = 6.67%
F	15	07 = 4.67%	65	10 = 6.67%
G	16	07 = 4.67%	66	10 = 6.67%
H	17	07 = 4.67%	67	10 = 6.67%
I	18	07 = 4.67%	68	10 = 6.67%
J	19	07 = 4.67%	69	10 = 6.67%
K	20	07 = 4.67%	70	10 = 6.67%
L	21	07 = 4.67%	71	10 = 6.67%
M	22	07 = 4.67%	72	10 = 6.67%
N	23	07 = 4.67%	73	10 = 6.67%
O	24	07 = 4.67%	74	10 = 6.67%
P	25	07 = 4.67%	75	10 = 6.67%

2-8 PRINT STYLES VIA DIP SWITCH SETTING STANDARD SETTINGS

Dip setting	Style of print out	Length
	JAN 1 AM12:00 MONTH DATE HOUR MINUTE	27mm (1.06")
	JAN 1 '90 AM12:00 MONTH DATE YEAR HOUR MINUTE	33.5mm (1.32")
	MO 1 AM12:00 DAY DATE HOUR MINUTE	24.5mm (0.96")
	000000 JAN 1 '90 NUMBER MONTH DATE YEAR	35mm (1.38")
	JAN 1 AM12:00 00S MONTH DATE HOUR MINUTE SECOND	34.5mm (1.36")
	1 AM12:00 DATE HOUR MINUTE	19.5mm (0.78")
	000000 1 AM12:00 NUMBER DATE HOUR MINUTE	35.5mm (1.40")
	000 JAN 1 AM12:00 NUMBER MONTH DATE HOUR MINUTE	36mm (1.42")
	JAN 1 AM12:00 MONTH DATE HOUR MINUTE	27mm (1.06")

If dip switch 4 is on, switches 1, 2, and 3 are ignored

2-9 SWITCHING THE ORDER OF MONTH, DATE, YEAR VIA DIP SWITCH

Dip setting	Sample Print
ON OFF 1 2 3 4 7 8	JAN 1 '90 AM12:00 MONTH DATE YEAR
ON OFF 1 2 3 4 7 8	'90 JAN 1 AM12:00 YEAR MONTH DATE
ON OFF 1 2 3 4 7 8	1 JAN '90 AM12:00 DATE MONTH YEAR
ON OFF 1 2 3 4 7 8	JAN 1 '90 AM12:00 MONTH DATE YEAR

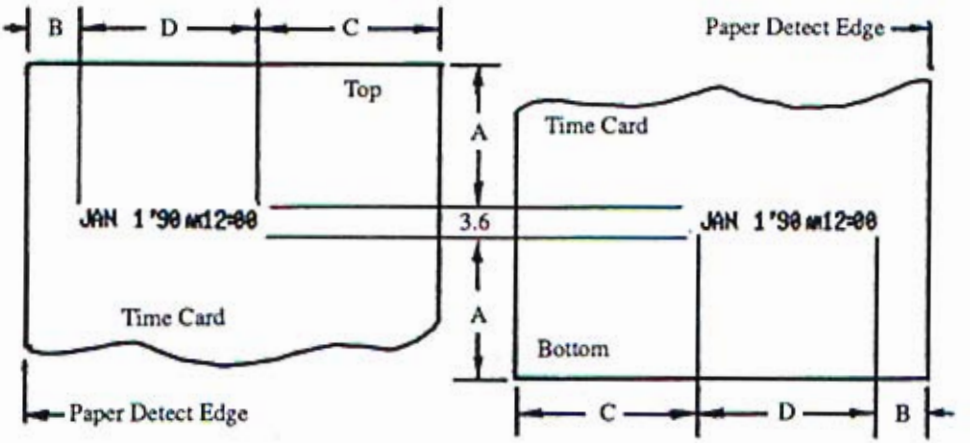
2-10 RIGHT OR LEFT PRINT

Left
Dip Setting

ON OFF 9

Right
Dip Setting

ON OFF 9



Dimension A: Requires 45mm (1.8") or more when dimension C is less than 60mm (2.4").

Dimension B: Possible to setup at 0mm - 30mm (0" - 1.2").

Dimension C: Requires 60mm (2.4") or more when the dimension A is less than 45mm (1.8").

Dimension D: See section (2-8).

2-11 TYPES OF HOURS

JAN 1 AM12:00
12 hour (AM/PM)

JAN 1 0:00
Military (24 hour)

2-12 MINUTES/SECONDS PRINT FORMAT

Note: Seconds are printed when the print style for seconds is selected (See section 2-8).

Regular JAN 1 AM12:40 40S

Minutes: 60th/hr., ex. 0, 1, 2, 3, ... 58, 59, 0, 1, 2 . . . . .

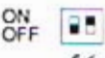
Seconds: 60th/min., ex. 0, 1, 2, 3, . . . 58, 59, 0, 1, 2 . . . . .

100A' JAN 1 AM12.67 28S

Minutes: 100th/hr., ex. 0, 1, 2, 3, ... 98, 99, 0, 1, 2 . . . . .

Seconds: 60th/min., ex. 0, 1, 2, 3, ... 34, 35, 0, 1, 2 . . . . .

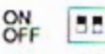
36 seconds = 0.01 hour



100B JAN 1 AM12.65

Minutes: 20th/hr., ex. 0, 5, 10, 15, ... 95, 0, 5, 10 . . . . .

Seconds: Not printed

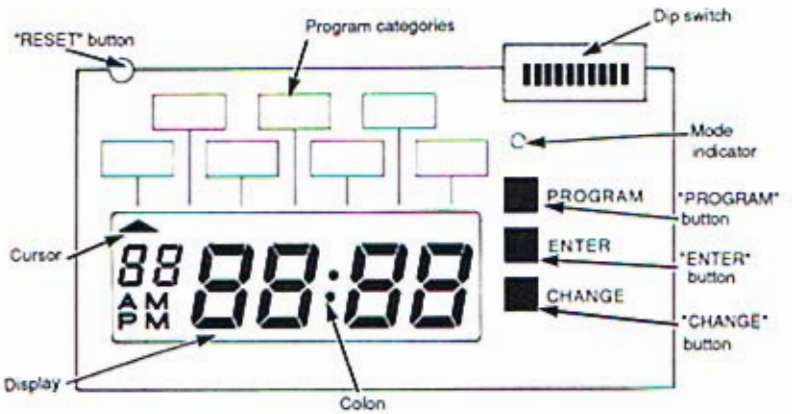


10ths JAN 1 AM12.6

Minutes: 10th/hr., ex. 0, 10, 20, ... 80, 90, 0, 10, 20 . . . . .

Seconds: Not printed

3-4 FRONT PANEL DESCRIPTION



Mode indicator	On when in program mode. Off when in normal mode.
"PROGRAM" button	Press to enter program mode. Press to leave program mode.
"ENTER" button	Press to start program indicated by blinking cursor. Press to enter blinking digit. Press to save all blinking data on display.
"CHANGE" button	Press momentarily to change blinking value or cursor by one. Press and hold to change blinking value or cursor fast.
Cursor	Normal mode: Indicates the day of the week. Program mode: Indicates the program category.
Colon	Flashes when printer is plugged in. It is on constantly when printer is not plugged in.
"RESET" button	Press if machine program is lost.

3-5 GETTING AROUND IN PROGRAM MODE

At this point your selection between standard or advanced programming should be made. If Standard has been selected return to section 2-8 and set the DIP switches according to required Print Style. If Advance has been selected turn to 3-6 to program. If you are planning to use a combination of standard and advance, program the advanced first then return to section 2-8 to set the DIP Switches.

To enter the program mode

1. Remove Cover Case.
2. Press "PROGRAM" button.
3. The display will change from time and date to blank. A flashing arrow and a red mode indicator light will be lit.

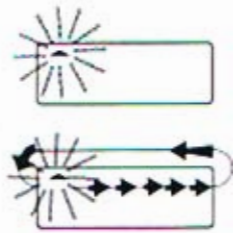
To exit the program mode

1. Press the "PROGRAM" button.
2. Display will flash and the time and date will appear.

Tip: To exit quickly and without saving press "RESET".

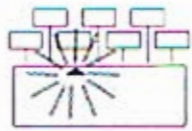
Scrolling through the program mode.

1. While in program mode. Press the "CHANGE" button once and the prompt will move to the next position.
2. Continue pressing the "CHANGE" button and the prompt will eventually return to where it began.



Choosing a program category

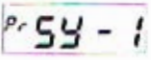
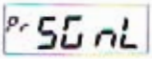
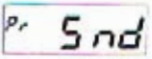
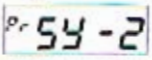
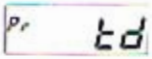
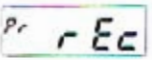
1. Scroll the prompt to the desired category. Press the "ENTER" button once to modify the parameters.



3-6 PROGRAMMING SYMBOLS

This section is the beginning of the advanced programming. This explains how to program symbols 1 and 2. (Optional) signal program and Master/ Slave function can be prorammmed here but require additional hardware.

1. Remove the cover and press "PROGRAM" button to enter the program mode.
2. Press the Symbol Switch on the front lower left corner to toggle into the advanced program area.
3. The first area will be the Symbol 1 area. To scroll, press the "CHANGE" button. As the "CHANGE" button is pressed you will scroll through the following screens.

Symbol 1	Signal	Send
		
Symbol 2	**Time Duration**	**Receive**
		

AREA DEFINITIONS

(SY-1) Symbol 1 program area. Press "ENTER" to begin creating Print Style using the codes from the Character Table (See section 2-7A)

(SY-2) Symbol 2 program area. Press "ENTER" to begin creating Print Style using the codes from the Character Table (See Section 2-7A).

(OPTION PROGRAM AREA) **NOTE:** Additional hardware is required to use these functions. The hardware may be purchased separately as needed.

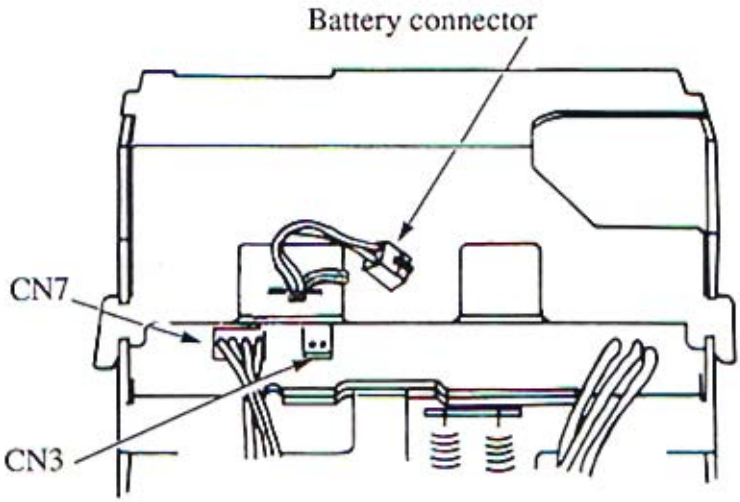
(SGnL) Signal is used to program the days and time an auditory device would sound to indicate break times, etc. A maximum of 20 signals events may be programmed.

(td) This is the amount of time the signal device would sound for. Usually 5 to 10 seconds, maximum 60 seconds.

(Snd) This functions allows for the transfer of Symbol 1 and 2 Program to another PIX-3000X that will be used for the same purpose. This reduces the initial setup time by allowing one machine to be programmed and then copying that program to other PIX's.

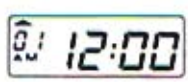
(rEc) This function allows the program being copied from the PIX sending the program to be stored and saved.

1-8 CONNECTING THE BATTERY



1. Connect the black and red wires from the battery into pin connector CN3.
2. Plug the AC power cord into a wall socket.

- Display will show Jan. 1,1990 AM 12:00



- Colon will flash

NOTE: When AC power is not connected properly the colon will not flash. (See section 4-3, Error Messages).

NOTE: The battery is fully charged prior to shipping, however, to insure premium performance it is recommended that the battery be fully charged prior to use (approx. 24 hrs).

NOTE: To avoid damaging the power reserve battery, or draining to an unrecoverable level, keep machine plugged into a AC power source during normal operation. The power reserve battery is used for limited power outages, not as a power source during normal operations.

3-6 PROGRAMMING SYMBOL (cont.)

The following is the quick reference and sample Program.

1. Press "PROGRAM" button.
2. Press "SYMBOL" Switch.
3. For Symbol 1 press "ENTER".
   For Symbol 2 press "CHANGE" then "ENTER".
4. Press "CHANGE" button to select the right code, then "ENTER".
5. Repeat step 4 until **"En"** end code is displayed, then press "ENTER".
6. Press the "PROGRAM" button, then insert a piece of test media.

EXAMPLE 1

CHARACTER	F	A	X	E	D		JAN	16	'91	AM8:32	
CODE	15	10	33	14	13	48	38	39	37	41	En
LENGTH	7	7	7	7	7	7	21	14	19	47	0
% REMAINING	99	95	90	86	81	76	72	58	48	36	4

EXAMPLE 2

CHARACTER	R	E	C	E	I	V	E	D		JAN	16	'91	
CODE	77	64	62	64	68	81	64	63	48	38	39	37	En
LENGTH	10	10	10	10	10	10	10	10	7	21	14	19	0
% REMAINING	99	93	86	80	73	66	60	53	46	42	28	18	6

Total length for Example 1 = **143** Total Percentage = **95%**
Total length for Example 2 = **141** Total Percentage = **94%**

3-7 MANUAL DAYLIGHT SAVING TIME ADJUSTMENT

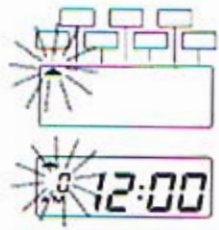
If the automatic Daylight-Saving time adjustment is activated, one hour will be added and subtracted on the dates programmed. If you choose to use the manual Daylight-Saving time adjustment it is recommended that the automatic Daylight-Saving feature be deactivated. (See section 3-9)

ONE HOUR MANUAL ADJUSTMENT

This area will immediately subtract or add one hour to the time. It will not effect the minutes or seconds.

1. With the cover case off press the "PROGRAM" button.
2. The prompt will be flashing under '**ONE HOUR ADJUST**', press "ENTER".
3. Press the "CHANGE" button until the desired code is displayed. (See Chart)

0	means the hour stays the same.
1	means to add an hour.
-1	means to subtract an hour.



4. Press the "ENTER" button, the display will adjust. The Hour will then begin to flash.

CORRECT: Press "ENTER" **INCORRECT**: Press "CHANGE"

5. If you press "CHANGE" the code will begin to flash, repeat step 3. If you press "ENTER" the prompt will appear under **'YEAR,MONTH,DATE".**
6. See next section 3-8.

3-8 CHANGING THE DATE AND TIME

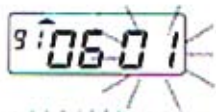
YEAR, MONTH AND DATE

1. After entering the program mode, or if you are already there, move the prompt under **"YEAR,MONTH,DATE".**

2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct year appears, then "ENTER".

4. Month will start flashing, press "CHANGE" until the correct month appears, then "ENTER".

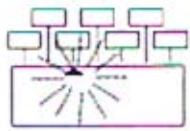
5. Date will start flashing, press "CHANGE" until the correct Date appears, then "ENTER".



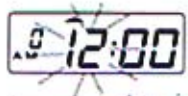
6. The whole display will begin flashing, if correct press "ENTER". If incorrect press "CHANGE" return to step 3.

HOUR AND MINUTE (TIME)

1. After entering the program mode, or if you are already there, move the prompt under **"HOUR, MINUTE".**



2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct hour appears, then "ENTER".



4. Minutes will start flashing, press "CHANGE" until the correct minutes appears, then "ENTER".

5. The whole display will begin flashing, if correct press "ENTER". If incorrect press "CHANGE" return to step 3.

3-9 AUTOMATIC DAYLIGHT-SAVING TIME ADJUSTMENT

NOTE: To disable Automatic Daylight-Saving time adjustment set the beginning date and the end date to the same value.

Concept: Automatic Daylight-Saving time uses the dates entered to add one hour from the beginning date, and subtract one hour from the end date. The hour will be added and subtracted at 2:00 AM on the dates that have been programmed. Once Automatic Daylight-Saving time has been programmed it should not have to be changed.

BEGIN DAYLIGHT-SAVING and END DAYLIGHT-SAVING TIME

1. After entering the program mode, or if you are already there, move the prompt under **"BEGIN DAYLIGHT SAVING".**
2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct year appears, then "ENTER".
4. Month will start flashing, press "CHANGE" until the correct month appears, then "ENTER".
5. Date will start flashing, press "CHANGE" until the correct Date appears, then "ENTER".
6. The whole display will begin flashing, if correct press "ENTER". If incorrect press "CHANGE" return to step 3.

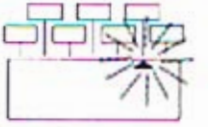
1. After entering the program mode, or if you are already there, move the prompt under **"END DAYLIGHT SAVING".**
2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct year appears, then "ENTER".
4. Month will start flashing, press "CHANGE" until the correct month appears, then "ENTER".
5. Date will start flashing, press "CHANGE" until the correct Date appears, then "ENTER".
6. The whole display will begin flashing, if correct press "ENTER". If incorrect press "CHANGE" return to step 3.

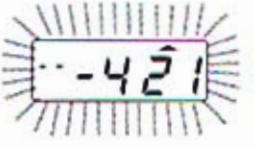
3-10 CHANGING THE NUMBER AND REPEAT VALUE

INITIAL NUMBER SET

Once the initial, beginning number, has been set, the number will increment or stay the same based on the Number Step Value.

1. After entering the program mode, or if you are already there, move the prompt under **"INITIAL NUMBER SET".**
2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct first digit appears, then "ENTER".
4. the second digit will start flashing, press "CHANGE" until the correct digit appears, then "ENTER".
5. Continue steps 3 and 4 until all digits have been programmed, upon entering the last digit press "ENTER".
6. The whole display will begin flashing, if correct press "ENTER". If incorrect press "CHANGE" return to step 3.





NUMBER STEP INTERVAL (REPEAT VALUE)

This section will make the starting number increment or remain constant. If a value of **"0"** is entered here the number programmed in "INITIAL NUMBER SET" will be repeatedly printed. If a value of **"1"** is entered the number programmed in "INITIAL NUMBER SET" will increment one after each print. If value is set greater then **"1"** the number entered in "INITIAL NUMBER SET" will be repeatedly printed until that value has been reached then the number will increment by one and repeat the cycle.

1. After entering the program mode, or if you are already there, move the prompt under **"NUMBER STEP INTERVAL".**
2. Press "ENTER" to start the sequence.
3. Press "CHANGE" until the correct value appears, then "ENTER".
4. The repeat value will start flashing, press "CHANGE" until the correct value appears, then "ENTER".
5. The screen will go blank and the prompt will appear under "ONE HOUR ADJUST". If the value is incorrect return to step 1.

4-1 WHAT YOU WILL LEARN IN THIS CHAPTER

This chapter defines problems which can occur, the corrective measures to take and will also teach you preventive measures to avoid potential problems altogether.

4-2 WHAT TO DO

To prevent damage to the PIX-3000X it is recommended to only use paper type media. Special care should be taken to avoid inserting paper with paper clips, stables or other fastening devices directly under the print head as damage can occur. Care should also be taken when inserting and removing paper from the PIX. Upon inserting make sure the paper does not bend or crumple, because it may jam the machine. Before attempting to remove paper you should wait until the unit has completed its print cycle. The PIX secures the paper by clamping down on it so if you attempt to remove the paper too soon it may tear off inside the machine. It is recommended to periodically clean the inside of the machine. This is accomplished by using a can of pressurized air to blow out paper dust. A good time to perform this preventive maintenance is when you are changing the print ribbon. The PIX records how many imprints the unit has performed and this number should be recorded so you can plan for needed ribbons changes.

4-3 ERROR MESSAGES

COLON STATUS: If power is connected and good the display colon will 'BLINK', upon loss of power the display colon will remain constant.

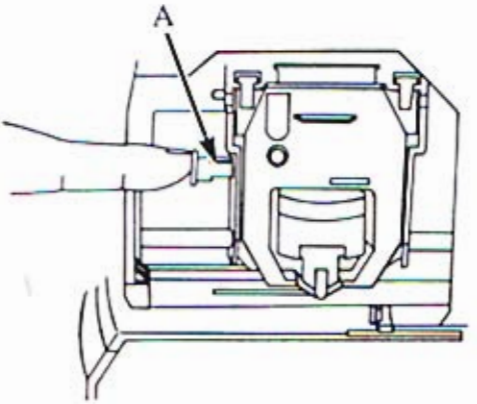
DISPLAY STATUS: In the event of a problem, a code will be display on the screen. Below is the code definition and possible solutions.

ERROR CODE	Cause	Solution
LO bAt	The battery is drained, power is off, battery is disconnected	Let Battery Charge, Connect to power, connect battery
E1 Prt	Home sensor motor, Carriage Stuck, JAM	Press the reset button, Remove object jamming machine
E2 Prt	Timing Sensor, Carriage Stuck, JAM	Press the reset button, Remove object jamming machine
E3 Prt	Home sensor weak / not sensing	Clean inside of machine
E4 Prt	Carriage stuck	Press reset button
Er Prt	Jam during print cycle	Press reset and remove object from machine
dlt	Attempt to adjust Daylight saving during auto Daylight saving mode	Wait one hour before trying to start program mode.

4-4 EXTENDING THE RIBBON LIFE

The PIX-3000X has a Ribbon extender lever, which will prolong the use of he ribbon until it can be replaced. To activate:

1. Remove the cover (See section 1-5).
2. Grasp lever "A" and pull until the ribbon moves outward.
3. Check print quality. If print did not improve the ribbon needs to be replaced.
4. If installing a new ribbon make sure this lever is pushed down before using.



4-5 CHECKING THE NUMBER OF PRINTS

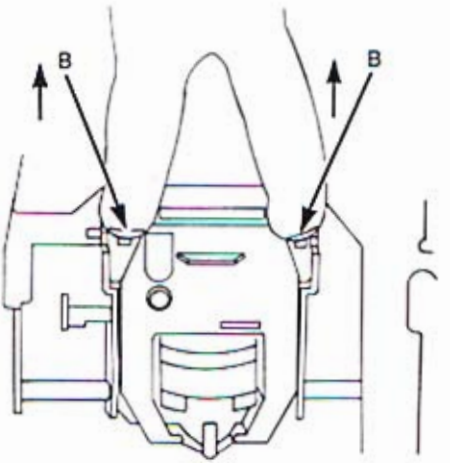
This will allow you to keep track of when to replace ribbons and actual ribbon life.

1. Remove the cover (See section 1-5).
2. Press and hold the "CHANGE" button down, then press the "RESET" button.
3. The display will change and show the number of prints.
4. Press "RESET" to return to normal operations.

4-6 REPLACING THE RIBBON

Removing Ribbon:

1. Remove the cover (See Section 1-5).
2. Looking at the right hand side of the machine, pull the two catches "B" upward. While holding the catches up, use your other hand to remove the ribbon.



To Insert:

1. Insert the backside of the ribbon first.
2. Then swing the lower portion into position.
3. Turn the knob on the ribbon 2 or 3 times to insure the ribbon cassette is properly installed.
4. Replace the cover.