QUARTZ TIME RECORDER

Z120 USER'S MANUAL

INTRODUCTION

Thank you for purchasing our Quartz Time Recorder. For safe and proper operation, please carefully read this manual before using it and save it for reference.

- 1. The details of this User's Manual are subject to change without prior notification.
- This User's Manual has been prepared with the utmost care to cover all aspects of the time recorder's use.
 - If you feel, however, that some explanations are inadequate, unclear, or difficult to understand, please do not hesitate to contact the dealer or the shop from whom you have purchased your Time Recorder.
- 3. Be sure to use your Time Recorder after you have fully understood the hardware and software specifications and limits.
- 4. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, photocopying, recording or otherwise.
- 5. Place the time recorder at the position close to the wall outlet so that it is easily accessible to disconnect
- 6. This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflections at visual display workplaces this device must not be placed in the direct field of view.

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Q0910-61200

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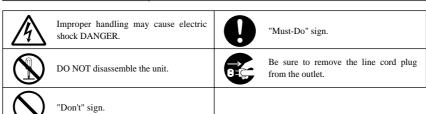
1. PRECAUTIONS

This user's manual is prepared for safe and proper use of the unit. Please follow all the instructions to avoid possible danger to yourself or others and damage to the unit.

Signs

Various warnings and cautions are provided throughout this manual along with signs. Remember each sign and its explanation listed below for your safety and proper operation of the unit.

Marning Warning	Improper handling may cause bodily accidents including death and serious injury.
Caution	Improper handling may harm the human body or material.







Do not disassemble the unit. There is a high voltage present inside, possibly leading to an electric shock.



Do not modify the unit. Modifications may cause a fire and/or electric shock.



If any anomaly occurs, for example, heat or smoke is generated or an odor is emitted, unplug the unit immediately and contact your dealer for servicing. There is a danger that further use may cause a fire or electric shock.



Do not use any voltage of the power source other than designated.

Do not share a single outlet with another plug. These may lead to fire or shock hazards.



Do not damage, break, or modify the power cord. Do not put a heavy object on, pull, or forcefully bend the cord, either. These may damage the cord, possibly resulting in a fire or electric shock.



If foreign matter should get in the unit (including a piece of metal, water, or liquid), disconnect the plug from the outlet immediately and contact your dealer for servicing. There is a danger that further use may cause a fire or electric shock.



Do not plug or unplug the unit with a wet hand. You may get an electric shock.



Caution



Do not place the unit on an uneven or tilted surface. This may result in injuries due to the unit dropping or falling off.



Do not put a water-filled container or a metal object on top of the unit. If water is spilled or the metallic object slips inside, a fire or shock hazard may occur.



Do not install the unit in a humid or dusty environment. It may cause a fire or electric shock.



Do not place the unit near kitchen counter or humidifier. Oil, smoke, or steam generating from them may cause fire or shock hazards.



Do not yank the power cord to disconnect from the outlet. Hold the plug with your hand to do so, or the cord may be damaged, possibly leading to a fire or electric shock.



Remove the line cord plug from the outlet before transferring the unit, or it may damage the cord, possibly leading to a fire or electric shock.



Be careful not to contact the print head, as you may get hurt or burned.



Make sure to insert the power plug as far as it will go. Improper insertion of the plug may develop fire or shock hazards.



Do not insert or drop any other time card than specified into the slot. Such misuse may cause a fire or electric shock.



If the unit should be dropped or the case be broken, unplug the unit and contact your dealer for servicing. Further use may lead to a fire or shock hazard.

Daily Care -

For cleaning, turn the power off and wipe the case clean of dust and dirt with a dry cloth, etc.

2. GETTING STARTED

Packing Contents













User's manual

Keys

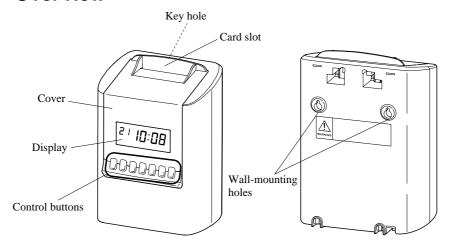
Wall mount hardware

Ribbon cassette

AC adapter

pter Small cover and screw

Overview



< Display (punching mode) >

Daylight saving time indication

SU MO TU WE TH FR SA

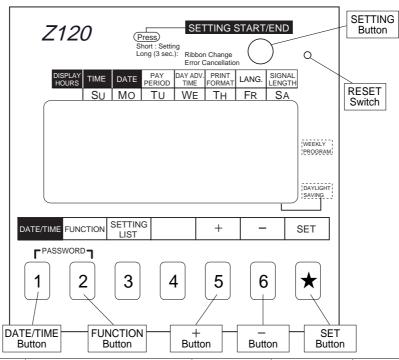
Current date

AM/PM indication

1 2 3 4 5 6 ★

Current time

Summary Current time



Button		Label	SETTING MODE		PUNCHING MODE	OTHER	RESET	
Dui	lon	Labei	Selectable items		PUNCHING MODE	OTHER	KLSLI	
	1		Select setting items	DISPLAY HOURS	Move to			
		DATE/TIME	for DATE/TIME	TIME				
			IOI DATE/TIME	DATE	1st column			
				PAY PERIOD		Password Setting	All clear Reset	
				DAY ADV. TIME		(Press both	(Press reset	
S			Select setting items	PRINT FORMAT	Move to	buttons at the	button while	
Control Buttons	2	FUNCTION	for FUNCTION	LANG.	2nd column	same time)		
В				SIGNAL LENGTH	ZIIU COIUIIIII		pressing 1 and 3	
ıttor.				WEEKLY PROGRAM			buttons)	
S			DAYLIGHT SAVING				Duttons)	
	3				Move to 3rd column	List Printing		
	4				Move to 4th column			
	5	+	Change (increment) flashing number		Move to 5th column			
	6	1	Change (decrement) flashing number		Move to 6th column			
	*	SET	Set flashing number		Override punching			
SET	SETTING SETTING START/END Enter/Exit setting mode			Ink Ribbon Change Error Cancellation (press for 3 sec.)				

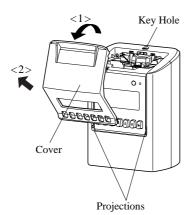
Refer to "Reset" in this manual to learn how to use the RESET button.

SETUP: AC adapter



Put the bottom face of a time recorder toward you. Connect a plug of AC adapter into the time recorder, and run the cord into the groove on the bottom. Then, plug the AC adapter into AC outlet.

SETUP: Remove/Attach the Cover



- Turn the key to unlock.
- Remove the cover.
 <1> Pull the top of the cover toward you supporting the bottom side of the
 - <2> Pull it to front and upper direction. Then, remove the cover.
- Attach the cover.

 Fit the right and left sides on the bottom of the cover in projections of the unit. Then, attach the cover in the reverse order of <1> and <2> in step 2.
- Turn the key to lock.

Installing the Ribbon Cassette

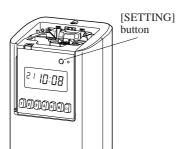


Make sure the power is on before installing.

Remove the cover, and press [SETTING] button for three seconds.

Then, display will change as follows and a ribbon cassette moves to the replacement position.

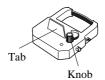
Note: Ribbon cassette is not factory installed.



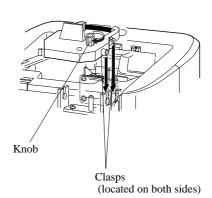
When you replace an installed ribbon cassette to a new one, pull up the ribbon cassette just above with the tab.

Turn the knob of the new ribbon cassette in the same direction as the arrow to tighten the ribbon.

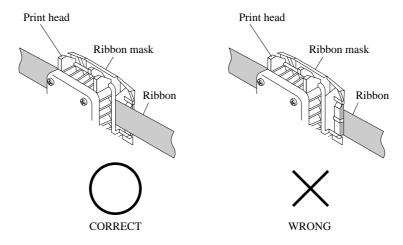
Note: Must not turn the knob in the opposite direction. Improper handling causes malfunction of a ribbon cassette.



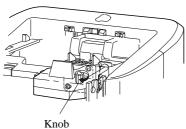
Place the ribbon cassette inside the time recorder as shown in the figure. Push the ribbon cassette until it snaps into the clasps on both sides. If it is difficult to insert the ribbon cassette, try it while turning the knob.



Install the ribbon cassette so that the ribbon is between the print head and the ribbon mask (see the figure on the left). Printing will not come out properly if the ribbon is placed behind the ribbon mask (see the figure on the right).



- **6** Turn the knob of the ribbon cassette in the direction of the arrow to tighten the ribbon.
 - When you finish changing the ribbon cassette, press [SETTING] button for three seconds to be back to normal punching mode.



Mounting Unit on Wall

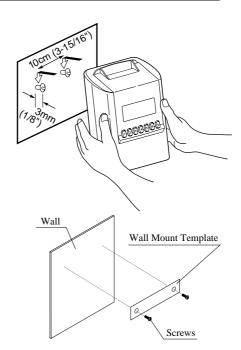
The unit can be mounted on a wall using the supplied mounting fittings.



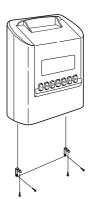
Make sure the power is off before mounting.

- Install wall mount screws (supplied) into a wall 10 cm (3-15/16") apart. Be sure to keep about 3 mm (1/8") of the screw head out of the wall. Use template on the bottom of the back side of this manual if you prefer.
- The supplied screws are intended for use on a thick wooden wall or wooden column. Do not use them on any other materials.

 There is a danger that the unit may come off if used on the other materials.



- Mount the wall mount fittings as shown on the right.
- Plug the unit into power, and the unit is ready to use.

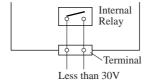


Connecting the External Time Signal

When a signal is activated the internal contacts close completing the circuit. These internal contacts are "dry" and supply no voltage. Voltage applied to these contacts must not exceed 30 volts.

Connection Specifications for External Time Signal Contact

- Contact output: dry contact
- Contact capacity: 30V, 2A or less (Resistive) and SELV (Safety Extra-Low Voltage)

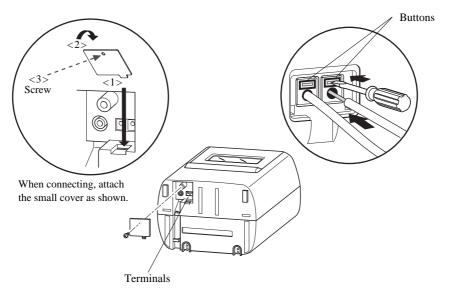




CAUTION:

Disconnect the Z120 from AC power before connecting. Improper connection may cause a malfunction of the unit.

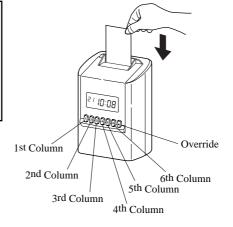
Insert wires into two terminals for external time signal relay while pushing the button with a pointed implement.



3. DAILY OPERATION



- Do not bend, fold, and cut time cards, and do not put any label and sticky note on time cards.
- Do not let any object except time cards get into the slot.
- Do not forcefully push in a card and pull out a card.



Punching

Once AC adapter is plugged into an outlet, time recorder can be used immediately. **Note**:

- Make sure to install a ribbon cassette in it.
- Refer to "4. SETTING: Date and Time" and "5. SETTING: Function" in this manual, if you need to change settings.
- Press a button corresponding to a column you want to punch.
- 2 Insert a time card into card slot with printing side to the front. The time card is automatically pulled in, printed, and then ejected.

Note:

- You can punch up to 6 times a day.
- Once the column is selected by a button, the selected column remains unchanged even after your punching. (Once setting is changed, punching column will be back to the original position.)
- By setting weekly program, punching column can be moved automatically.

Override Punching

In case that you want to punch later than "Day Advance Time", you can use "Override Punching". Using "Override Punching", your next punching is in the desired column on the same line with the previous day. To identify override punching, the punching will have special mark " \diamondsuit " or " \spadesuit ".

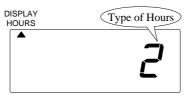
- Press [★] button before inserting a time card. When you press [★] button, the 6th column is automatically selected.
- ② If necessary, press a button from the 1st to the 5th column to specify punching column, while the "▼" mark is flashing near [★] button.
 - **Note**: You can cancel "Override Punching" when you press [★] button once again while the "▼" mark is flashing near [★] button.
- 3 Insert a time card into card slot with printing side to the front. The time card is automatically pulled in, printed, and then ejected.

4. SETTING: Date and Time

Setting the Display Hours

"Display hours" is the format that the hours appear on the clock face. Once you select "AM/PM" for display hours, time in setting mode is also indicated in "AM/PM" format.

Below image shows an example that "24hours" is chosen.



Selectable numbers and Options

No.	Type of Hours	Example
1	AM/PM	PM 3:30
2	24 hour	15:30

- Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- 2 Press [DATE/TIME] button, and position "▲" under "DISPLAY HOURS" mark.
- 3 Press [+] or [-] button to select number 1 or 2, and press [SET] button to accept.
- 4 Press [SETTING] button to exit setting mode, and attach the cover.

Note: If you press [DATE/TIME] button before pressing [SETTING] button, you can continue setting for date and time.

Setting the Time

Below image shows an example set at 8:30 PM.



Selectable numbers and Options

No.	Hour	No.	Minute
0	12AM	00	00
_			
23	11PM	59	59

- 1 Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- 2 Press [DATE/TIME] button and position "▲" under "TIME" mark.
- 3 Press [+] or [-] button to adjust number to current hour, and press [SET] button to accept. **Note**: When you change time, second will be back to 0 second automatically.
- 4 Set current minute in the same manner.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Note: If you press [DATE/TIME] button before pressing [SETTING] button, you can continue setting for date and time.

Setting the Date

Below image shows an example of December 20, 2013.



Selectable numbers and Options

No.	Year	No.	Month	No.	Date
00	2000	1	January	1	1
99	2099	12	December	31	31

- **1** Remove the cover, and press [SETTING] button to enter setting mode.
 - **Note**: When "9999" appears on display, input the password first.
- **2** Press [DATE/TIME] button, and position "▲" under "DATE" mark.
- 3 Press [+] or [-] button to adjust number to the last two digits of current year, and press [SET] button to accept.
- 4 Set the current month and date in the same manner.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Note: If you press [DATE/TIME] button before pressing [SETTING] button, you can continue setting for date and time.

5. SETTING: Function

Setting the Pay Period

You can choose the length of one period using one card, and set the ending date/day.

Below image shows an example that "Semi-monthly" is chosen.



Selectable numbers and Options

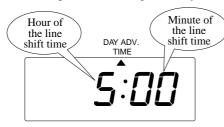
No.	Type	Order Option	How to set the Ending Date/Day
1	Monthly	1-31	Set the ending date of the month.
2	Weekly	0-6	Set the desired pay period ending day, which comes within 7 days from today. (Today is counted as 0.)
3	Bi-weekly	0-13	Set the desired pay period ending day, which comes within 14 days from today. (Today is counted as 0.)
4	Semi- monthly	1-31	Set two ending dates of the month. (Can't set the same date.)

- **1** Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- 2 Press [FUNCTION] button, and position "▲" under "PAY PERIOD" mark.
- 3 Press [+] or [-] button to select period type, and press [SET] button to accept.
- 4 Press [+] or [-] button to select number of your desired ending date/day according to the period type, and press [SET] button to accept. When you choose Type 4 (Semi-monthly), you need to set two dates of the month.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Setting the Day Advance Time

The day advance time refers to the time when printing shifts to the next line on a time card for the next day. With this function, you can adjust from what time to what time of the day will be regarded as the same day on a time card.

Below image shows an example that Day Advance Time is set to 5:00AM.



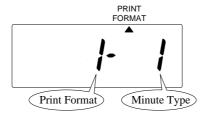
Selectable numbers and Options

No.	Hour	No.	Minute
0	12AM	00	00
-		-	I
23	11PM	59	59

- Remove the cover, and press [SETTING] button to enter setting mode.
 - **Note**: When "9999" appears on display, input the password first.
- **2** Press [FUNCTION] button and position "▲" under "DAY ADV. TIME" mark.
- 3 Press [+] or [-] button to select hour of the line shift time, and press [SET] button to accept.
- **4** Set the minute of the line shift time in the same manner.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Setting the Print Format

Below image shows an example that "Date, 24hour" and "Regular Minutes" are chosen.



Print Format: Selectable numbers and Options

No.	Print Format	Example:
1	Date, 24hour	₹ 15 : 30
2	Day of the week, 24hour	Mo 15:30
3	24hour	15:30
4	12hour	PM 3:30
5	Date, 12hour	₹3:30 P
6	Day of the week, 12hour	Mo 3:30 P

Minute Type: Selectable numbers and Options

No.	Minute Type	Print Example: 8:43
1	Regular Minutes (1/60)	8:43
2	Hundredths (1/100)	8.71

• Remove the cover, and press [SETTING] button to enter setting mode.

Note: When "9999" appears on display, input the password first.

- 2 Press [FUNCTION] button, and position "A" under "PRINT FORMAT" mark.
- 3 Press [+] or [-] button to select number of Print Format, and press [SET] button to accept.
- ◆ Press [+] or [-] button to select number of Minute Type, and press [SET] button to accept.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Setting the Language

You can select desired language from the following 6 options for day of the week indication on time cards.

This setting is available only when you select a print format which includes day of the week.

Below image shows an example that English is chosen.



Selectable numbers and Options

No.	Language	Example:Thursday
1	English	TH 15:30
2	Spanish	JU 15:30
3	German	DO 15:30
4	French	JE 15:30
5	Italian	GI 15:30
6	Portuguese	QI 15:30

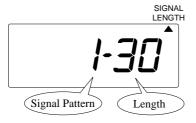
- 1 Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- **2** Press [FUNCTION] button, and position "▲" under "LANG." mark.
- 3 Press [+] or [-] button to select number of Language, and press [SET] button to accept.
- 4 Press [SETTING] button to exit setting mode, and attach the cover.

Setting the Signal Length

You can set desired signal length up to three patterns. Length of each pattern is selectable from 1 to 30 seconds.

Note: Refer to "Connecting External Time Signal" for how to connect to external devices and its specifications in this manual.

Below image shows an example that Signal Pattern No.1 is set to 30 seconds signal.



Selectable numbers and Options

No.	Signal Pattern	No.	Length
1	1	1	1 second
3	3	30	30 seconds

- 1 Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- 2 Press [FUNCTION] button, and position "▲" under "SIGNAL LENGTH" mark.
- 3 Press [+] or [-] button to select number of signal pattern, and press [SET] button to accept.
- 4 Press [+] or [-] button to select seconds of signal length, and press [SET] button to accept.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Setting the Weekly Program

Weekly program enables a time recorder to memorize the following features for specified time. Up to $24 \, \mathrm{programs}$ can be set.

Selectable numbers and Options

No.	Feature	Order Option	Explanation	Action
1	Column	1-6,	Automatic printing column shift	Select column to shift
2	Special Marking	1, 2,	Special Mark "▲" for irregular recognition	Select on/off of special marking 1: turn ON 2: turn OFF
3	Signal Pattern	1, 2, 3,	Output Signal	Select Signal Pattern

Note:

- When you select the option "5" or "6" in the "Print Format" setting, the special mark appears instead of AM/PM indication, and will change to " \blacktriangledown " in the afternoon.
- When you choose "--" in the order option of features, it means that there's no command and no change.
- To set Signal Pattern, refer to "Setting the Signal Length" in this manual.

Example

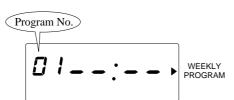
Applicable Monday - Friday

11		,										
Day Advance Time Next							Next Day					
Time	5:00	0 9:00		12:	12:00 17:00		:00	17:30		20:00		5:00
Printing Column 1st C		olumn 2	n 2nd Column		3rd C	Column 4th Co		olumn 5th Column		olumn	6th C	Column
Special Mark	-		0	N	→							
External Signal		Pattern 1			Pattern 2 Pattern 3		ern 3	Patte	ern 3			
Program No).	1			!	3	3		1	5		
	SUN	off		of	f	off		off		off		1
Applicable days	MON	MON										1
of the week		on		on	n	on	on		on			
of the week	FRI											
	SAT	off		of	f	off off		ff	off		1	
Applying Tir	9:00)	12:	00	17:	:00	17:	30	20:	:00		
Feature 1 (Colu	2		3	}		1	5	5	(5		
Feature 2 (Special	1		-	-	2	2	-	-	-	-		
Feature 3 (Signal)	1		-	-	2	2	3	3	3	3		

- Remove the cover, and press [SETTING] button to enter setting mode.

 Note: When "9999" appears on display, input the password first.
- Press [FUNCTION] button and position " ▲" next to "WEEKLY PROGRAM" mark.
- 3 Select a Program No.

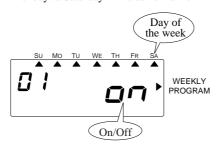
 Press [+] or [-] button to select a program number, and press [SET] button to accept.



Note:

- Program number already in use shows applying time instead of "--:--"
- To change setting in the program number already in use, select the desired program number, and change settings in the same manner as you originally set.
- Select the applicable Days of the Week.

Press [+] or [-] button to select on/off to apply or not to apply the program on Sunday (flashing), and press [SET] button to accept. Set remaining days of the week from Monday to Saturday in the same manner.



Note:

- When "off" is selected for all days of the week, the program will be cancelled.
- Once a program is deleted, the following program numbers will be moves up one by one.

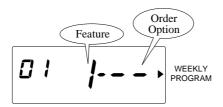
Set the applying time.

Press [+] or [-] button to set applying time, and press [SET] button to accept.



6 Select the feature.

Press [+] or [-] button to select number of order option for feature 1, Column, shown in the table on page 20, and press [SET] button to accept. Set feature 2 and 3 in the same manner.



Press [SETTING] button to exit setting mode, and attach the cover.

 $\label{eq:Note:eq:No$

Setting the Daylight Saving Time

- Daylight saving time function

1 D.S.T. execution time

At 2:00 a.m. on the first day of daylight saving time period, the clock automatically gains one hour to show 3:00 a.m. When 3:00 a.m. comes on the last day of the daylight saving period, it loses one hour and returns to 2:00 a.m.

2 Setting D.S.T.

Example:

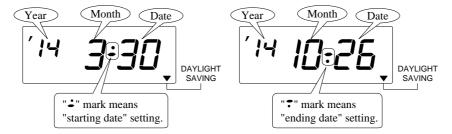
Starts: Sunday, March 30, 2014 Ends: Sunday, October 26, 2014

If set as the above, the unit remembers the starting date as the last Sunday of March and the ending date as the last Sunday of October. Once set, the unit automatically updates the settings every year thereafter. No further manual setting is necessary.

> The setting for daylight saving time will be described using the following example.

Example		
Today (present day)	Wednesday,	
	November 20, 2013	
Starting date of daylight	Sunday,	The last Sunday of March
saving time	March 30, 2014	
Ending date of daylight	Sunday,	The last Sunday of
saving time	October 26, 2014	October

Below image shows examples that "March 30, 2014" and "October 26, 2014" are set as starting / ending date.



- **1** Remove the cover, and press [SETTING] button to enter setting mode.
 - Note: When "9999" appears on display, input the password first.
- ② Press [FUNCTION] button and position "▲" above "DAYLIGHT SAVING" mark.
- **3** Set the starting date.
 - Press [+] or [-] button to select number of starting date (year, month, and date), and press [SET] button to accept. Then, move to next.
- 4 Set the ending date.
 - Press [+] or [-] button to select number of ending date in the same manner, and press [SET] button to accept.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Note

- If you press [FUNCTION] button before pressing [SETTING] button, you can continue setting for function.
- To cancel Daylight Saving Time, change month of starting date into "--".

6. OTHERS

Setting / Changing the Password

Once the password is set, you are requested to input the current password before changing any setting. If the password you entered does not coincide with the current password, you cannot change the setting values.

Below image shows an example that "1234" is set as password.



- 1 Remove the cover, and press [SETTING] button to enter setting mode.
- Press the password buttons ([1] and [2]) at the same time for three seconds.
 Note: In case that you've already set a password, "9999" appears on display. You need to input the current password first to change the password. (No password is set by
- 3 Select a number for the first digit of your password using [+] or [-] button, and press [SET] button to accept.

Note:

- "0000" and "9999" are not valid as your password.
- When you set "0000", password will be cancelled.
- 4 Select the 2nd, the 3rd, and the 4th digits in the same manner.
- **5** Press [SETTING] button to exit setting mode, and attach the cover.

Inputting the Password

- While display shows "9999", press [+] or [-] button to select a number for the first digit of your password, and press [SET] button to accept.
- **2** Select the 2nd, the 3rd, and the 4th digits in the same manner.
- **3** When correct password is input, you can enter setting mode and change settings.

Reset

All settings including weekly programs will be deleted when the reset is done. It's strongly recommended to print out setting list before reset.

Below image shows the display during reset process.



Below image shows the display when finishing reset.



- Remove the cover, and push [RESET] switch with a pointed implement while pressing [DATE/TIME] and [SETTING LIST] buttons.
- When reset is completely done, settings returns to default settings. **Note**: Refer to "Default Settings" in this manual.

List Printing

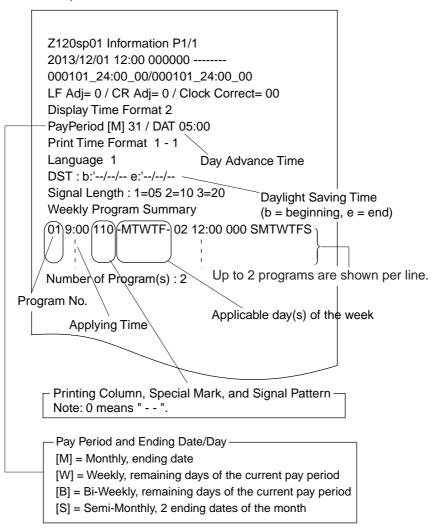
This list is enable to confirm all of the current settings.

Below image shows the display in step 2.



- 1 Remove the cover, and press [SETTING] button to enter setting mode.
- 2 Press [SETTING LIST] button, and insert a time card while display is shown as above.
- **3** Press [SETTING] button when list printing is finished, and attach the cover.

Print Example



7. INFORMATION

Error No. Causes and Actions

No.	Error causes	Action			
E-00	CPU Error	Contact the store from whom you bought the unit.			
E-01	The remaining life of lithium battery for memory back-up is short.	_			
E-05	The card is not pulled in properly.	Make sure that another time card is not jamming in the time recorder and the ribbon cassette is correctly installed in place. After making sure of the above, attach the cover.			
E-15	Card sensor error				
E-10	RAM error	Contact the store from whom you bought the unit.			
E-12	Clock does not work.	_			
E-30 E-38	Printing cannot be performed. The printer motor or sensor is not normal.	Make sure that another time card is not jamming in the time recorder and the ribbon cassette is correctly installed in place. After making sure of the above, attach the cover.			
E-35	Inserted time card is wrong type. The time card is stuck in the time recorder.	In case the time card is completely stuck in the unit and does not come out, remove the cover. Then, using another time card, push the stuck time card downwards, and take it off from the bottom of the unit.			
E-40	Password error	Input the correct password you set. (4-digit numbers)			
E-41	The starting date and the ending date of the daylight saving time are the same date.	Correctly set the starting date and ending date of the daylight saving time.			
E-49	Input the wrong settings.	Check the setting contents and input the correct figures.			

Note:

- If the error number is still displayed after checking above points, contact the store from whom you bought the unit.
- When you finish instructed action, press [SETTING] button for three seconds to be back to normal punching mode.

Other failures

• The unit does not operate.

Check whether AC adapter is properly in an AC outlet.

• The unit does not print.

Check whether the ribbon cassette is installed in place.

• Print is not located in the right place.

Check whether setting of the pay period ending date is set correctly.

Check whether the day advance time is set correctly.

Make sure that no part of time card is folded, and that time card is inserted straight into the

 \rightarrow If improper printing still remains after checking above points, contact the store from whom you bought the unit.

• "99 99" appears when you try to enter the setting mode.

Password is required. Input the correct password you've set. (4-digit numbers)

→ Refer to "Setting / Changing Password" in this manual.

Environmental Conditions

Avoid placing the unit in environments that are:

- humid or dusty
- exposed to direct sunshine
- subject to frequent or continuous vibrations
- \bullet outside the temperature range between -5° and 45° C (+23°F and +113°F)
- affected by chemicals or ozone



Leave about 3mm gap betwee

Level

Wall Moun

Default Setting

Setting	Default Setting	Note
Display Hours	24hour	
Time	00:00	*1
Date	January 1, 2013	*1
Pay Period	Monthly, 31	
Day Advance Time	5:00	
Print Format	Print format: Date, 24hour Minute Type: Regular Minutes (1/60)	
Language	English	
Signal Length	Pattern 1: 5 seconds, Pattern 2: 10 seconds, Pattern 3: 20 seconds,	
Weekly Program	No setting	
Daylight Saving Time	No setting	
Password	No setting	

^{*1:} Date and time are set at the same day of shipment by factory default setting.

For detailed explanation of each setting, refer to "4. SETTING: Date and Time" and "5. SETTING: Function" in this manual.

31)

Line Line

it Template

Specifications

Clock accuracy	Monthly accuracy ± 15 sec. (at ordinary temperature)			
Calendar	Year up to 2099. Automatically adjusted to leap years, 31-day months and months with thirty or fewer days, and the days of the week.			
Printing system	Dot matrix imprint			
Power failure compensation	Three years of cumulative power failure hours after the date of shipment			
Print at power failure	Optional battery, 100-times printing or 24 hours (option)			
Connection of external time signal	Connection with an external device (No voltage signal output)			
Operating environment	Temperature: -5° C to $+45^{\circ}$ C : $+23^{\circ}$ F to $+113^{\circ}$ F Humidity: 20% to 80%RH, no condensation The unit operates normally at temperatures of 5° C or below, but the print density, reaction of the liquid crystal display, and the number of prints at power failure are inferior to those at normal temperature operation.			
Dimensions	6-7/8"(w) x 9-5/8"(h) x 5-3/16"(d) 175(w) x 244 (h) x 132 (d) mm			
Weight	Approx. 3.5lbs. (1.6 kg) (with AC adapter)			
Power Consumption	120VAC 50/60Hz 0.4A 220–240VAC 50/60Hz 0.25A			
Rating of AC adapter	INPUT: 100-240V~ 50-60Hz 0.45A OUTPUT: DC12V 1.5A			
Time Card	Single Side Card Size: 82(w) x 205(h) t=0.25 (mm)			

NOTICE: Use only the supplied AC adapter.

This unit complies with the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC.