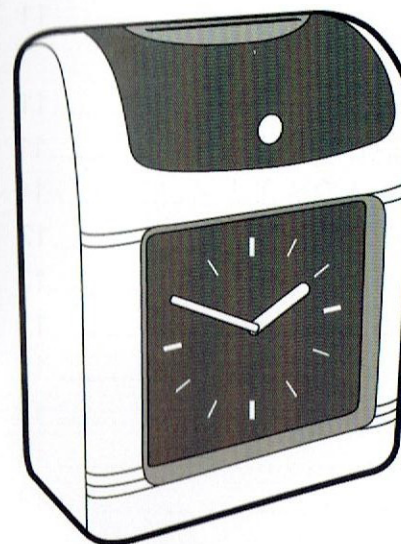
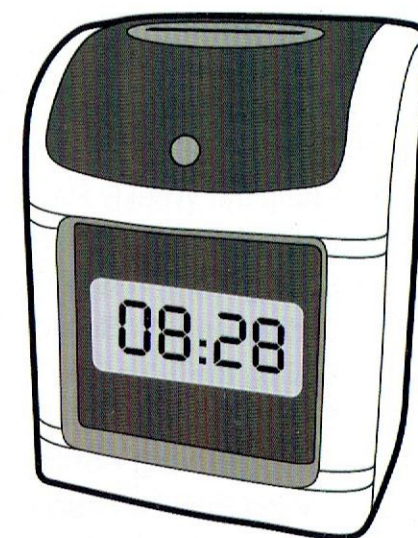




INSTRUCTIONAL MANUAL



T2OS-1



T2OS-2

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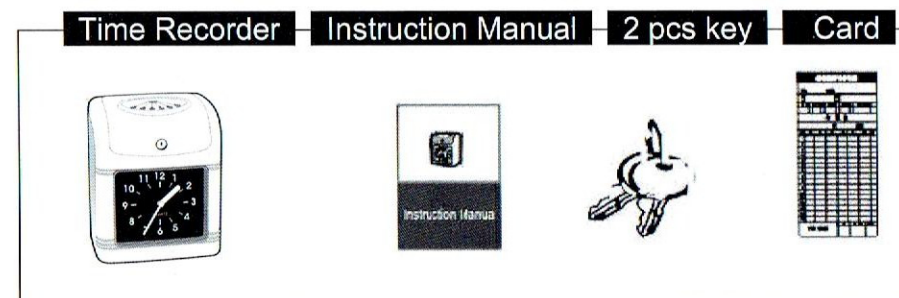
1. Introduction

In order to operate your time recorder accurately and efficiently with a longer product life, please read this manual thoroughly.

Models Functions	LCD	Analogue
LCD Display	*	
Clock Face		*
Two color printing	*	*
Time Signal	*	*
Perpetual calendar	*	*
Back up battery	*	*
Auto In-Out adjustment	*	*
External Signal Unit	*	*
Data memory backup during power failure	*	*
Check time card's front or back automatically. if insert the wrong side, will quit by the machine.	*	*

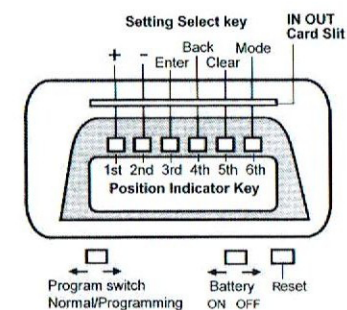
1.1 Package Contents

Unpack the time recorder and check its contents to ensure that the time recorder unit and all accessories as shown below are included.



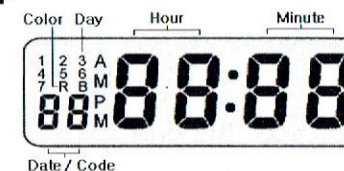
1.2 Parts identification

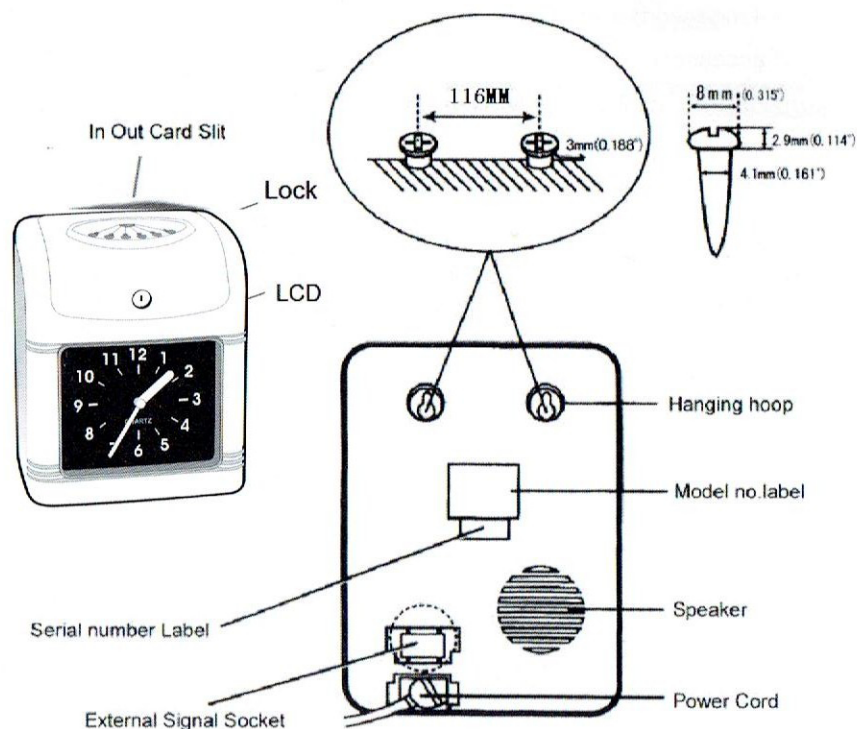
(a) Keypad



Note: some style does not have battery

(b) LCD on the top





1.3 Setting select key

+	to increase the set value by 1
-	to decrease the set value by 1
Enter	to save the set value & enter the next step
Back	to backspace the set value
Mode	Function Programming
Clear	to cancel the set value
Program switch	Normal/ Programming
Battery	Battery On/Off
Reset	Reset

2. Function options

2.1 Quick codes' selection:

- b000**--- Setting the time (Year, Month, Date, Time System, Hour, Minute)
- b001**--- Setting the Optional Function
- b002**--- Setting the regular time signal
- b003**--- Setting the shifting time
- b004**--- Setting the 2-color printing

2.2 Detail codes' selection:

b000	
Code	Functions
01	Setting the Year
02	Setting the Month/ Date
03	Setting the Time System
04	Setting the Hour/Minute
05	Setting the Minute Indication
b001	
Code	Functions
01	Setting the date changing time
02	Setting the Monthly, Weekly, Bi-weekly pay period ending day
03	Setting the S/W solstice start (month and day)
04	Setting the S/W solstice start (hour and minute)
05	Setting the S/W solstice end (month and day)
06	Setting the S/W solstice end (hour and minute)
07	Setting Printing position (up / down)
08	Setting Printing position (left / right)
09	Detecting front/back of card
10	Setting the regular of time signal(0~99Seconds)

b002	
Code	Functions
01~24	Setting the time of ringing (01~24 group)
b003	
Code	Functions
01~18	Setting the time of shifting (01~18 column)
b004	
Code	Functions
01	Setting the time 1 st group of changing color(Red)
02	Setting the time 2 nd group of changing color(Black)
03	Setting the time 3 rd group of changing color(Red)
04	Setting the time 4 th group of changing color(Black)
05	Setting the time 5 th group of changing color(Red)
06	Setting the time 6 th group of changing color(Black)
07	Setting the time 7 th group of changing color (Red)
08	Setting the time 8 th group of changing color (Black)
09	Setting the time 9 th group of changing color (Red)
10	Setting the time 10 th group of changing color (Black)
11	Setting the time 11 th group of changing color (Red)
12	Setting the time 12 th group of changing color (Black)
13	Setting the time 13 th group of changing color (Red)
14	Setting the time 14 th group of changing color (Black)
15	Setting the time 15 th group of changing color (Red)
16	Setting the time 16 th group of changing color (Black)
17	Setting the time 17 th group of changing color (Red)
18	Setting the time 18 th group of changing color (Black)

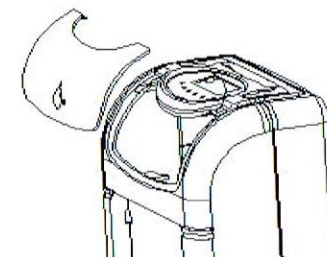
3. Be ready for setting

1. Power Supply

- (1) Stable power source are highly recommended.
- (2) Please check the correct voltage & power cord before uses.

2. Top Cover

Remove the top cover prior to set program or change the ribbon case
Open the Top Cover by using the key provided and remove the top cover.



4. Function Setting

The programming mode is entered by unlocking and removing the top cover from the time recorder with the program switch to right hand side,

The LCD will shown **b000** press **Mode** key to select the program **b000, b001, b002, b003, b004**

4.1 Setting the Year

Press **Mode** key to select the program **b000**

Press **Enter** again to register the setting value.



Press **Enter** or **Back** to enter the program Code **01**,

(01 display on the left corner indicates the program Code),

The digital display reads 2010 indicates year 2010, The year "10" flashes on the right of the digital display, press the **+** or **-** button to set the year. Press **Enter** to register the setting.



4.2 Setting the Month and Date

Press **Enter** or **Back** to enter the program Code **02**,
 press **+** or **-** button to set the month.
 Press **Enter** again to register the setting value.
 press **+** or **-** button to set the day.
 Press **Enter** again to register the setting value.



4.3 Setting the time system

Press **Enter** or **Back** to enter the program Code **03**,
 Press **+** or **-** button to set the time system.
 Press **Enter** again to register the setting value.



4.4 Setting the Hour and Minute

Press **Enter** or **Back** to enter the program Code **04**,
 Press **+** or **-** button to set the Hour.
 Press **Enter** again to register the setting value.
 press **+** or **-** button to set the Minute.
 Press **Enter** again to register the setting value.



4.5 Setting the Minute Indication

	Minute Indication
0	1/60 Minutes
1	1/100 Hour

1/60 Minutes, 1/100 Hour

Minute	0	1	2	3	4	5	6	7	8	9	~	29	30	31	32	33	34	35	~	54	55	56	57	58	59
1/100hour	00	02	03	05	07	08	10	12	13	15	~	48	50	52	53	55	57	58	~	90	92	93	95	97	98

4.6 Setting the date changing time

Press **Mode** key to select the program **b001**
 Press **Enter** again to register the setting value.
 Press **Enter** or **Back** to enter the program Code **01**,
 press **+** or **-** button to set the the Hour.
 Press **Enter** again to register the setting value.
 press **+** or **-** button to set the set the Minute.
 Press **Enter** again to register the setting value.



4.7 Setting the Monthly, Weekly, Bi-weekly pay period ending day

Press **Enter** or **Back** to enter the program Code **02**,
 press **+** or **-** button to set the card type.
 Press **Enter** again to register the setting value

Card Type	Functions
00	Month pay time card
01	Weekly pay time card
02	Bi-weekly pay time card



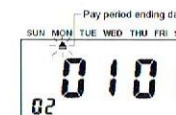
4.7a Change the Monthly pay period end day

When the pay period end day is set to 00, the first row on the 1~15 row card surface is automatically as blank row.
 The set value is from 00 to 31.



4.8 Setting the Weekly pay period ending day

Press **Enter** or **Back** to enter the program code **02**,
 press **+** or **-** button to set the card type to 01
 Press **Enter** again to register the setting value.
 Press **Clear** button to select the required pay period ending day and then Press **Enter** again to register the setting value.



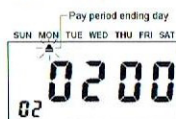
Weekly pay Card type	Functions	Bottom Space
01	Upper part weekly pay	23mm
02	Lower part weekly pay	23mm
03	Upper part weekly pay	35mm
04	Lower part weekly pay	35mm



press **+** or **-** button to set the weekly pay card type to 01
Press **Enter** again to register the setting value

4.9 Setting the Bi-Weekly pay period ending day

Press **Enter** or **Back** to enter the program code 02,
press **+** or **-** button to set the card type to 02
press **Enter** again to register the setting value
press **Clear** button to select the required pay
period ending day and then Press **Enter** again to register
the setting value.
Press **+** or **-** button to set the Bi-weekly pay
card type to 01. Press **Enter** again to register the
setting value

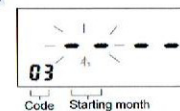


Bi-weekly pay Card type	Functions	Bottom Space
01	Bi-weekly pay current week	23mm
02	Bi-weekly pay second week	23mm
03	Bi-weekly pay current week	35mm
04	Bi-weekly pay second week	35mm



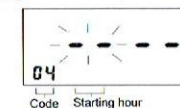
4.10 Setting the S/W solstice start (month and day)

Press **Enter** or **Back** to enter the program code 03,
press **+** or **-** button to set the start month.
Press **Enter** again to register the setting value.
press **+** or **-** button to set the start date.
Press **Enter** again to register the setting value.



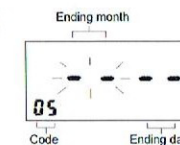
4.11 Setting the S/W solstice start (hour and minute)

Press **Enter** or **Back** to enter the program code 04,
press **+** or **-** button to set the start hour.
Press **Enter** again to register the setting value.
press **+** or **-** button to set the start minute.
Press **Enter** again to register the setting value.



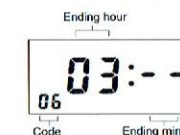
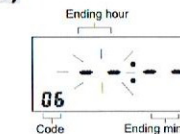
4.12 Setting the S/W solstice end (month and day)

Press **Enter** or **Back** to enter the program code 05,
press **+** or **-** button to set the end month.
Press **Enter** again to register the setting value.
press **+** or **-** button to set the end date.
Press **Enter** again to register the setting value.



4.13 Setting the S/W solstice end (hour and minute)

Press **Enter** or **Back** to enter the program code 06,
press **+** or **-** button to set the end hour.
Press **Enter** again to register the setting value.
press **+** or **-** button to set the end minute.
Press **Enter** again to register the setting value.



4.14 Setting printing position (Up/Down)

Press **Enter** or **Back** to enter the program code **07**,
Press **+** or **-** button to set the printing position <0~9>
Press **Enter** again to register the setting value.
Higher value, printing moves upward, lower value,
printing moves downward.



4.15 Setting printing position (Left/Right)

Press **Enter** or **Back** to enter the program code **08**,
press **+** or **-** button to set the printing position <0~9>
Press **Enter** again to register the setting value.



4.16 Detecting front/back of cards

Press **Enter** or **Back** to enter the program code **09**.
Press **+** or **-** button to select the flashing value "0000"
or "0001", "0000" is for closing this function, "0001" is for starting
this function. Press **Enter** again to register the setting value.



***The detection function operates only when you use specific time cards
(monthly pay cards) with front/back detection cut-out.**

4.17 Setting the regular time signal (0-99Seconds)

Press **Enter** or **Back** to enter the program Code **10**,
Press **Enter** again to register the setting value.
Press **+** or **-** button to set time signal duration and
the initial value (10 seconds) will appear.
The duration can be set from 0~99 seconds,
Press **Enter** again to register the setting value



4.18 Setting the time signal

Press **Mode** key to select the program **b002**
Press **Enter** again to register the setting value.
Press **Enter** or **Back** to enter the program Code **01**
Press **Enter** again to register the setting value.
Press **+** or **-** button to set the Hour.
Press **Enter** again to register the setting value.
Press **+** or **-** button to set the Minute.
Press **Enter** again to register the setting value.
Press **+** button to set the week.
Press **-** button to cancel the week.
Press **Clear** button to set everyday,
Doing the same as above to enter code **02~24** and
complete the setting of 2nd~24th ring times if necessary.



4.19 Setting the shifting time

Press **Mode** key to select the program **b003**
Press **Enter** again to register the setting value.
Press **Enter** or **Back** to enter the program Code **01**,
Press **+** or **-** button to set the Hour.
Press **Enter** again to register the setting value.
Press **+** or **-** button to set the Minute.
Press **Enter** again to register the setting value.
Press **+** button to set the week.
Press **-** button to cancel the week.
Press **Clear** button to set everyday,
Doing the same as above to enter code **02~18** and
complete the setting of 2nd~ 18th shifting times if necessary.



The format below is for reference:

	01	02	03	04	05	06
Print Column	07	08	09	10	11	12
	13	14	15	16	17	18
Function	A.M. IN	A.M. OUT	P.M. IN	P.M. OUT	O.T. IN	O.T. OUT

4.20 Setting the 2-color printing

Press **Mode** key to select the program **b004**

Press **Enter** again to register the setting value.

Press **Enter** or **Back** to enter the program Code **01**,

Press **+** or **-** button to set the Hour.

Press **Enter** again to register the setting value.

Press **+** or **-** button to set the Minute.

Press **Enter** again to register the setting value.

Press **+** button to set the week.

Press **-** button to cancel the week.

Press **Clear** button to set everyday,

Doing the same as above to enter code **02~18** and complete the setting of 2nd18th change color times if necessary.



4.21 All Reset

Press "Reset" key to re-start the whole machine.

Press **+** & **Clear** & **Mode** (Key **1**, **5**, **6**) all together to restore the default value. including Date, Time, Time Signal, Color Change, Printing Position.

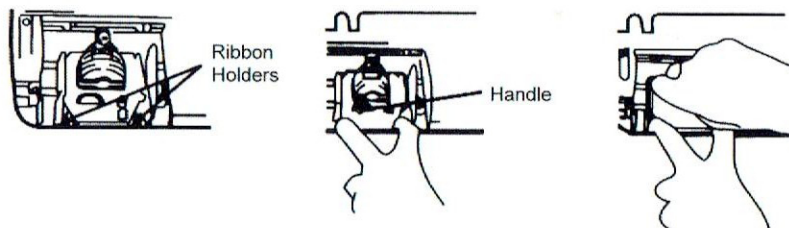
5. Trouble Shooting

© Press **RESET** button to re-start the program when it is not properly work.

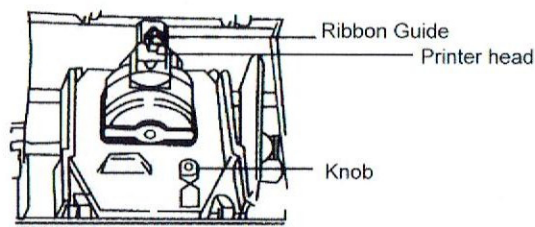
Trouble	Causes	Corrective Measures
The time recorder does not accept time card	1. Power failure 2. The time card is damaged 3. The power cord is disconnected. 4. Cards were inserted or pulled out by force.	1. Wait until power supply is restored 2. Change a new time card 3. Insert the power plug firmly into the power outlet. 4. Pull the power plug out of the power outlet, then insert again.
The clock is slow (or fast)	1. Mistakes in setting the clock. 2. Power failure	Set it correctly.
Light printing	1. The ribbon cartridge is not set correctly. 2. The cartridge has been used for long time.	1. Set it correctly. 2. Change a new cartridge.
The printing position is wrong	1. Incorrect setting of day change. 2. Improper use of the time recorder.	1. Set it correctly. 2. Make sure to insert the card in the card slot and remove it properly.
The date is incorrect	Mistakes in setting the date	Set it correctly.
Imperfect printing	Improper use of the time recorder	Make sure to insert card in the middle of card slot and remove then properly.

6. Replacing Ribbon Cartridge

1. Open the top cover, press Column 4 to move the ribbon cartridge to center.
2. As shown in the figure below, pull the ribbon holders towards you and, holding them steady in the position, use the handle to take out the cartridge.



3. Correctly insert a new cartridge between the ribbon guide and the printer head. Push the cartridge head until it clicks into place. Turn the knob clockwise to fasten the ribbon.



7. Cautions

1. To avoid fire or electric shock, please do not expose this machine to rain or excessive condensed moisture.
2. Do not expose to direct sunlight, strong heat source or dusty area.

8. Specifications

Power Supply	DC12.5V 1.5A Input (Refer to the indication on the label of each machine)
Power Consumption	Standby:2W / Work:10W
Dimensions	Approx. 193 x 244 x 123 mm (L x W x H)
Weight	2.4 Kgs
Usage Environment	-30°C~40°C 10%RH~80%RH
Time Card Sizes	85 x 188 x 0.35 mm (W x L x H)
Ribbon Cartridge	

9. Error Code

Once the E2E2, E3E3 shown on LCD display, please contact your dealer from whom you purchased the time recorder.

E2E2--Wrong position of left & right

E3E3—Battery needs to charge power

It is recommended to use genuine manufacturer time recorder ribbons. Usage of non genuine or compatible ribbons may damage your printer and void your warranty.V

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