INTRODUCTION & FEATURES

NTRODUCTION:

Thank you for your purchasing a Quartz Time Recorder. We are confident this time recorder will give you full satisfaction. Items such as the time and date are preset at the factory. After plugging in the AC power the recorder may be used immediately. However, we recommend reading this manual before you start using your time recorder.

EATURES:

Main applications: Payroll/job cost recorder, time stamp or numbering machine.

- The Quartz Time clock
- Dot-Matrix printer
- Perpetual calendar
- Automatic daylight saving time
- 3-way print activation
 Automatic
 Manual
 Semi-automatic
- Adjustable print position
- Prints in 8 language
- Prints numbers/date

- 12 or 24-hour format.
- Regular minute, 1/10, 1/60, 1/100 or 5/100 of an hour.
- Digital LCD display (Date, Hour, Minute, Day of the Week indication).
- Rigid enclosure, wall or desk top mount.
- Print selection by 16 polar DIP switches.

Caution:

Do not use in places:

- Subject to high humidity and dust.
- · Exposed to strong or continuous vibrations.
- Exposed to direct sunlight.
- The temperature range in which all functions of the Time Recorder will operate correctly is from -5°C to 45°C. Be sure therefore to place and use your time recorder only in locations in which this temperature range is not exceeded. Take care also not to subject your time recorder to any sudden, sharp temperature variations.

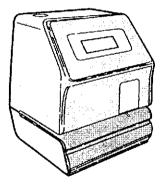
BEFORE USING YOUR TIME RECORDER

Package Contents

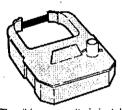
Unpack the Time Recorder and check its contents to ensure that the time recorder unit and all accessories as shown below are included.

Attached Accessories

Time recorder

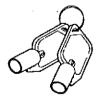


•Ribbon cassette



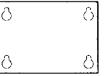
 The ribbon cassette is installed at the factory.

•Keys 2 pcs.



Wall-mount fittings

Screw 4 pcs.
Seet 1 sheet

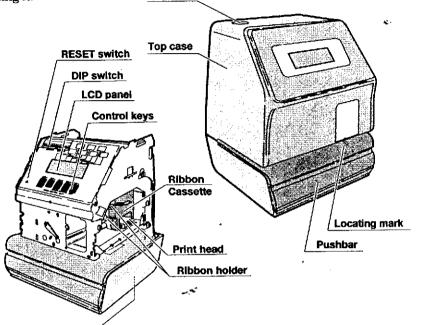


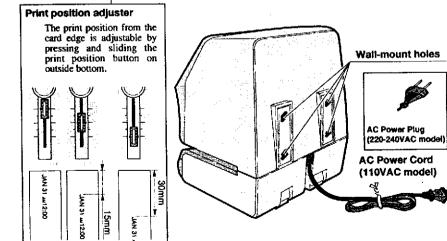
CONFIGURATION

Location of name

It is important to become familiar with the Time Recorder before setting it up and using it.

Key hole

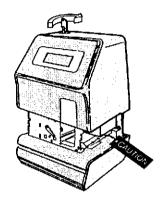




QUICK EASY SETUP

Step 1

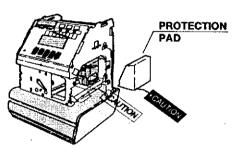
Unlock the key and remove the top case.



Step 2

Remove the PROTECTION PAD.

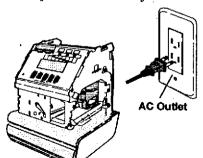
A Remove the PROTECTION PAD before you plug the AC cord into the AC outlet.



Step 3

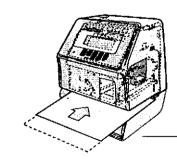
Plug the AC cord into the AC outlet.

When plugged in the LCD panel indicate the current time. It is now ready to be adjusted if necessary.



Step 4

Insert a card.



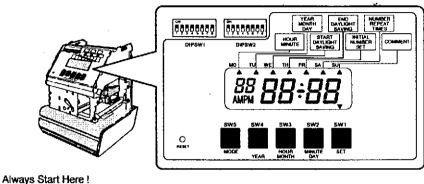
JAN 31 AM12:00

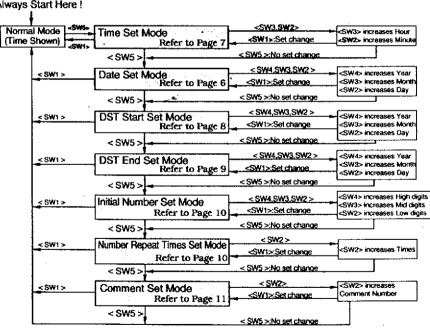
Print example

SETTING THE SEQUENCE

To enter one of the set modes below, applying power and removing the Top Case enables you to press the 5 tactile switches, SW5 to SW1.

< > indicates pressing a tactile switch. Pressing longer will realize faster increments.





Notes: <SW5> indicates pressing the function key SW5. DST: Daylight Saving Time

Example:

In case you want to advance the current time by 2 minutes, press SW5, SW2, SW2, SW1, and SW1 again to return to the current time as shown in bold characters above.

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SETTING THE DATE

Step 1



Press the [SW5 : MODE] key twice, the "YEAR / MONTH / DAY" arrow flashes.

Step 4





Press the [SW2: MINUTE / DAY] key until the correct day appears. Keeping the SW2 pressed, advances the day automatically. Longer pressing speeds advancement.

Step 2

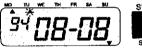
Example: Set to 8th August, 1994



Press the [SW4: YEAR] key until the correct year appears.

Keeping the SW4 pressed, advances the hour automatically. Longer pressing speeds advancement.

Step 5



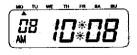
Press the [SW1: SET] key after checking the desired year, month and day on the LCD.

Step 3



Press the [SW3 : HOUR / MONTH] key until the correct month appears.

Step 6





Press the [SW1: SET] key again.

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SETTING THE TIME

After the date, set the present time in the following sequence.

Step 1



Press the [SW5 : MODE] key once, the "HOUR MINUTE" arrow flashes.

Step 2

Example:

Set to Morning 10:08 AM.



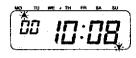


Press the [SW3 : HOUR / MONTH] key until the correct hour appears.

The seconds are automatically reset to 00.

Keeping the SW3 pressed, advances the hour automatically.

Step 3





Press the [SW2: MINUTE / DAY] key until the correct minute appears.

Keeping the SW2 pressed, advances the minute automatically. Longer pressing speeds advancement.

Step 4





Press the [SW1: SET] key after checking the desired time appears on the LCD.

The seconds are 00. Press [SET] accordingly to a time signal. The unit is now set to correct time.

Step 5



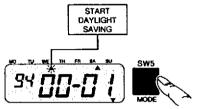


Press the [SW1: SET] key again.

SETTING THE STARTING DAYLIGHT SAVING TIME

When the daylight saving time is set, one hour will be automatically added to the day advance time on the starting date and, similarly, one hour will be automatically subtracted on the ending date of the daylight saving time.

Step 1



Press the [SW5: MODE] key three times, the "START / DAYLIGHT / SAVING" arrow flashes.

Example:

Starting from Second of April, 1995

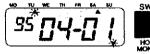
Step 2

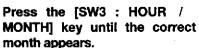


Press the [SW4 : YEAR] key until the correct year appears.

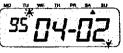
Keeping the SW4 pressed, advances the year automatically. Longer pressing speeds advancement.

Step 3





Step 4

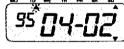




Press the [SW2: MINUTE / DAY] key until the correct day appears.

Keeping the SW2 pressed, advances the day automatically. Longer pressing speeds advancement.

Step 5





Press the [SW1: SET] key after checking the desired year, month and day on the LCD.

Step 6





Press the [SW1: SET] key again.

If you do not use the daylight saving time function, set the month value to 00.

SETTING THE ENDING DAYLIGHT SAVING TIME

Step 1



Press the [SW5:MODE] key four times, the "END / DAYLIGHT / SAVING" arrow flashes.

Example:

End on 29th of October, 1995

Step 2



Press the [SW4 : YEAR] key until the correct year appers.

Keeping the SW4 pressed, advances the year automatically. Longer pressing speeds advancement.

Step 3



Press the [SW3 : HOUR / MONTH] key until the correct month appears.

Step 4



Press the [SW2: MINUTE / DAY] key until the correct day appears. Keeping the SW2 pressed, advances the day automatically. Longer pressing speeds advancement.

Step 5



Press the [SW1: SET] key after checking the desired year, month and day on the LCD.

Step 6

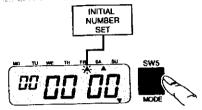


Press the [SW1: SET] key again.

INITIAL NUMBER & REPEAT TIMES SETTING

INITIAL NUMBER SET

Step 1

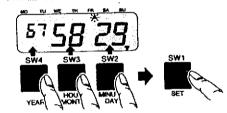


Press the [SW5 : MODE] key five times, the "INITIAL NUMBER SET" arrow flashes.

Example:

Setting initial number to 675829.

Step 2



Press the SW2, 3 or 4 key until the correct number appears.

Longer pressing speeds advancement.

Press the [SW1: SET] key after checking the desired number on the LCD.

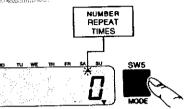
Step 3



Press the [SW1: SET] key again.

NUMBER REPEAT TIMES SET

Step 1

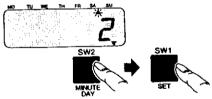


Press the [SW5:MODE] key six times, the "NUMBER REPEAT TIMES" arrow flashes.

Example:

Setting 2 times repeat. The repeat times can be set to 0 to 9.

Step 2

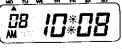


Press the [SW2 : MINUTE / DAY] key until the correct number appears.

The repeat times can be selected 0 to 9.

Press the [SW1: SET] key after checking the desired number on the LCD.

Step 3





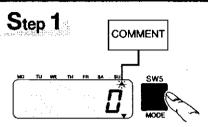
Press the [SW1: SET] key again.

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Page 10

COMMENT SETTING & WALL MOUNTING

COMMENT SETTING

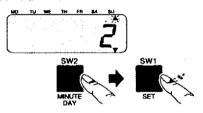


Press the [SW5: MODE] key seven times, the "COMMENT" arrow flashes.

Example:

Setting the comment to SENT.

Step 2



Press the SW2 key until the correct number appears.

No.	ì	2	3	4	5	6	7
Comment	HCVD	SENT	IN	OUT	CMFD.	FILED	PAID

•The comment will change according to country selection by DIP switch 2-6, 7 and 8.

Press the [SW1: SET] key after checking the desired number on the LCD.

Step 3



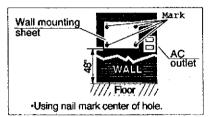


Press the [SW1: SET] key again.

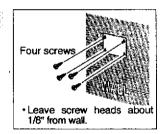
WALL MOUNTING

Step 1

- 1 Select wall area near AC outlet.
- 2 Measure 48inchs (122cm) from the floor. 3 Mount the Time Recoder on wood or surface which can support weight (dry wall will not support unit).



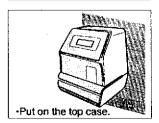
Step 2



Step 3



Step 4



PRINT FORMAT SETTING

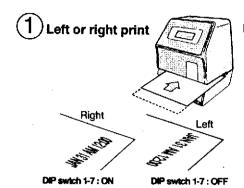
DIP SWITCH SETTING

DIPSW1	DIPSW2		
ON	° .		
1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8		
12345678	12345678	PRINT EXAMPLE	MEANING
00000000	00000000	JAN 31 AM12:00	Mon, Day, Hour, Min
*************	0000000	94 JAN 31 AM12:00	Year, Mon, Day, Hour, Min
●000●000	00000000	31 JAN 94 AM12:00	Day, Mon, Year, Hour, Min
●00000●00	00000000	JAN 31 '94 AM12:00	Mon, Day, Year, Hour, Min
● 000 ●● 00 i	00000000	JAN 31 '94 AM12:00	Mon, Day, Year, Hour, Min
00000000	00000000	31 AM12:00	Day, Hour, Min
●●0000000	00000000	SU 31 AM12:00	DOW, Day, Hour, Min
00000000	_00000000	000000 31 AM12:00	Num, Day, Hour, Min
●○●○○○○○	_000000000	000 JAN 31 AM12:00	
00000000	_000000000	000000 JAN 31 '94	Num, Mon, Day, Year
0000000	_000000000	000000 31 JAN 194	Num, Day, Mon, Year
00000000	00000000	000000 '94 JAN 31	Num, Year, Mon, Day
0000000	00000000	JAN 31 94 000000	Mori, Day, Year, Num
0000000	00000000	31 JAN 94 000000	Day, Mon, Year, Num
00000000	00000000	94 JAN 31 000000	Year, Mon, Day, Num
•••000000 <u>:</u>	00000000	RCVD JAN 31 '94	Com, Mon, Day, Year
	- 00000000	RCVD 31 JAN 94	Com, Day, Mon, Year
•••0•000 <u>1</u>	0000000	RCVD '94 JAN 31	Com, Year, Mon, Day
••••••	_00000000	JAN 31 94 RCVD	Mon, Day, Year, Com
•••00•00	00000000	31 JAN 94 RCVD	Day, Mon, Year, Com
•••••	0000000	94 JAN 31 RCVD	Year, Mon, Day, Com
••••••	_00000000	RCVD 31 AM12:00	Com, Day, Hour, Min
00000000	00000000	JAN 31 AM12:00	Flush Left Print
00000000	00000000	DAN 31 AM12:00	Flush Right Print
00000000	00000000	No. 4	Print by Card
0000000	00000000		Print by Pushbar
000000000	●00000000		Print by Card & Pushbar
00000000	00000000	JAN 31 AM12:40	60 min./Hour
00000000	0000000	JAN 31 AM12:67	100 min./Hour
00000000	00000000	JAN 31 AM12:65	20 min/Hour
00000000	0000000	JAN 31 AM12:6.	10 min./Hour
00000000	_000000000	JAN 1 PM 3:00	Zero Disabled
00000000	00000000	JAN 01 PM 03:00	Zero Enabled
000000000	00000000	JAN 31 PM 3:00	AM/PM
00000000	00000000	JAN 31 15:00	24 Hours
00000000	00000000	JAN 31 AM12:00	English
00000000	00000	ENE 31 AM12:00	Spanish the comment will
00000000	000000	JAN 31 AM12:00	German change according
00000000	000000	JAN 31 AM12:00	Franch to country staction
00000000	0000000	GEN 31 AM12:00	Italian 7 and 8
00000000	0000000	JAN 31 AM12:00	Portuguese / #NA
0000000	000000	I 31 AM12:00	Roman
00000000	00000	1 31 AM12:00	Japanese

O: OFF : ON

Mon: Month Min : Minute DOW: Day Of Week Com: Comment Num: Sequential Number (Refer to page 10).

PRINT METHOD SETTING



The DIP swtch 1-7 is used to select whether to print flush right or flush left on the card.

2 Print switch .

Automatic print

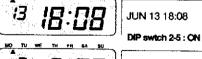
Inserting the card automatically initiates printing.

Semi-automatic print DP swtch 2-1: ON Only with the card inserted, pressing the pushbar starts printing.

Manual print DIP switch 1-8: ON Even with no card, pressing the pushbar starts printing.

The DIP switch 1-8 and 2-1 are used to select the said three mothods.

3 Type of an hour.



₹ 6:08

JUN 13 PM6:08

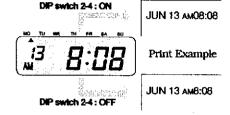
DIP switch 2-5 : OFF

Time can be displayed on a 12-hour (AM,PM) or 24-hour basis. DIP switch 2-5 is used for

selection. Print also changed accordingly.

(4) Leading 0 .

Leading 0 for hours less than 12 may be shown (enable) or suppressed (disable) on print.



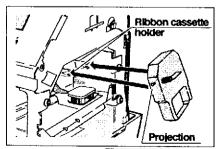
5) Type of an hour

Minute is printed in a unit which is obtained by dividing an hour by 60, 100, 20 or 10. DIP switches 2-2 and 2-3 are used for selection

Print contents	Print Example
To divide an hour by 60:0, 1, 2 58, 59, 0, 1, 2	JAN 1 AM1240
To divide an hour by 100: 0, 1, 2,, 98, 99, 0, 1, 2,	JAN 1 AM1267
To divide an hour by 20: 0, 5, 10,90, 95, 0, 5, 10,	JAN 1 AM12.65
To divide an hour by 10:0.1,2,,,8,9,0.1,2,,,	JAN 1 AM126

REPLACING RIBBON CASSETTE

- Carefully slide the exposed ribbon under the print head.
- Push cassette with the projection into the ribbon cassette holder until snapped into place.
- Turn the ribbon feed knob clockwise^(c) until the ribbon is taut.



SPECIFICATIONS

MAIN FUNCTION

Calendar Year 1994 to 2089

(Automatically adjusted to leap year)

Clock accuracy Monthly accuracy ±15 seconds

(at ordinary temperatures)

Digital LCD with 7 segments

Date, Hour, Minute and day of

the week indication

Daylight saving time Auto

Display

Comment print 7 lines(RCVD[ReCeiVeD] /

SENT / IN / CFMD[ConFirMeD]

/OUT/FILED/PAID)

DIP switch 16 poles

Memory Backup 3 year memory backup by

lithium battery.

PRINT FUNCTION

Print method Impact Dot Matrix - 9pins

3-way Card activated automatic, manual or semi-

automatic

Print position/ direction

Adjustable trigger trip Right/Left print by DIP switch

No. of printable Maximum 15 figures (excluding space) character: Numbering : Up to 6 figures

4.....

12 or 24-hours format,

Hour & minute format

regular minute, 1/10,1/100 or

5/100 of a hour.

Multiple copies Orig

Original + 4 (Maximum thickness 3mm or less)

Ribbon cassette

Carry-on cassette type fabric ink ribbon

OTHER SPECIFICATIONS

Power supply 110 VAC : for Korea 220-240 VAC : for Asia

Power consumption

110 VAC -----20 VA max.while printing

******4 VA while idling

-----0.2 A max.white printing 220-240 VAC -----20 VA max.white printing

-----4 VA while idling

······0.1A max.while printing

Temperature Operating -5 °C - +45°C

Humidity Operating

Operating 20% - 80%RH (No condensation)

Dimensions 6 27/32" X 6 3/16" X 8 3/16"

(174mm(W) X 157mm(D) X 208mm(H))

Weight Approximately 5.5lb.(2.5 Kg)

OPTION

Ribbon cassette Cat No. #TP-1051 N (Black ink)

Cat No. #TP-1051 NG (Green ink) Cat No. #TP-1051 NR (Red ink)

Operation Cat No. #TP-1004

Operation Cat No. #17-1004

battery Available of 200 print or 72 hours during no

electricity.

In case of nower failure

Even if a power failure has occurred, the optional built in battery backs up to 72 hours(roughly three days), provided that the battery cells are fully charged.

No printing battery capacity

The display is flashing when detecting the low battery capacity. Please stop printing until AC power supply is resumed.

If you still keep printing, the time recorder will harry up. When hung up, you have to press the RESET switch on the control panel by using a pair of tweezers. In this case, the calendar clock is cleared.