



ATR120

USER MANUAL



Table of Contents

I.	Introduction	1
	Overview	1
	Specifications	1
	Accessories	1
	Features	2
II.	Package Contents.....	2
III.	Location of Components	3
IV.	Getting Started.....	3
	Installing clock dial battery.....	3
V.	Setting the ATR120.....	4
	Programming Hints.....	4
	Selecting day of week	5
	Setting the time	7
	Setting the year, month, and date	7
	Setting Daylight Saving Time	8
	Setting the day change time	9
	Setting the printing format	9
	Setting the two-color printing and internal signal tone	10
	Setting signal duration	13
	Setting auto column shift print position	13
	Setting how the hour will print.....	15
	Setting the password	16
	Exiting program mode	16
VI.	Installing your ATR120	16
	Wall-mounting	17
VII.	Operating your ATR120	18
VIII.	Maintenance	19
	Replacing the ribbon	19

IX. Troubleshooting..... 20
 Location of fuses.....21
 Error codes.....21

I. Introduction

Overview

The ATR120 is an electronic across-the-card time clock, which can be used for a weekly or a biweekly pay period. The unique ATR121 Time Card offers a weekly time card on the front and a biweekly time card on the back. The day progresses across the card from left to right in six columns. This is accomplished by pressing one of the card-positioning buttons (IN-OUT) on top of the clock. The pay period (day of week) moves down the card, top to bottom. You may select the time of day you want this “day change” to occur. You may also select the starting day of your pay period during the easy set up procedure.

The ATR120 offers two-color printing so employee punches outside normal punch times will print in RED allowing for quick and easy auditing of exception punches. The built-in signal can be programmed to audibly denote start and stop work times. The large analog clock face, *not* electronically synchronized with the digital display, is easy to read from across the room.

With a built-in battery back-up, auto daylight saving adjustments and a perpetual calendar, the ATR120 Time Clock will always print the correct time.

Specifications

Power Source: 115VAC/60Hz

Power Consumption: 0.3V

Clock Accuracy: $\pm 3s$ per week

Ambient Temperature: 23°F ~ 104°F (-5°C ~ 40°C)

Ambient Humidity: 20% ~ 80%

Analog Clock: 1 AA Battery (1.5V)

Size: 8.1"W × 8.85"H × 4.93"D (205mm W × 225mm H × 125mm D)

Accessories:

To assure proper operation please use the accessories designed to work with the ATR120.

ATR121 Weekly/Bi-Weekly Time Card. Part Number

ATR122 Two-Color Replacement Ribbon Cassette. Part Number

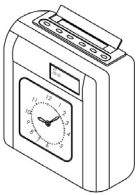
Features

- Compact design for desktop or wall mounting
- Weekly or bi-weekly pay periods
- Digital display shows time and date and is synchronized with dot matrix printer
- 9-pin dot matrix printer that allows for 12 or 24-hour & 60/100 print format
- Easily distinguish printing time between AM and PM. PM minutes or hundredths are over scored 8:00̄ (8:00 PM)
- 2-color (red/black) cassette ribbon can be programmed so punches outside of schedule will print in red
- Built-in signal tone to denote start and stop times
- Daylight Saving Time and perpetual calendar
- Password for program protection

II. Package Contents

Unpack the time clock and check its contents to ensure that it and all of the accessories shown below are included.

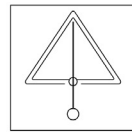
a. Time Recorder



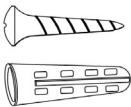
b. Manual



c. Wall-mounting diagram



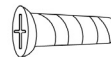
d. Screw and anchor
4pcs each



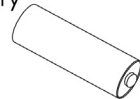
e. Wall-mounting
frame



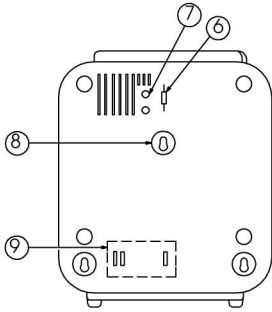
f. Screw M4X10 2pcs



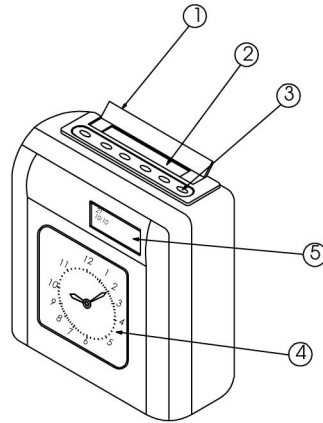
g. Battery



III. Location of Components



Rear Cover



Clock

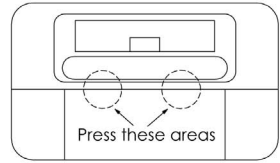
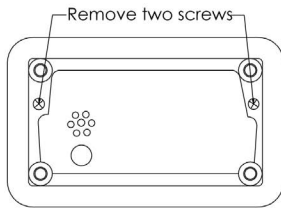
1. Anti-dust cover
2. Time card receiver
3. In/Out advance buttons (6)
4. Analog clock (Clock dial)
5. Display
6. Program mode switch
7. Reset (return to original factory settings)
8. Wall-mounting keyholes
9. Fuse access door

IV. Getting started

Installing clock dial battery

The front cover must be opened before the clock dial battery can be installed. Opening the front cover also allows you to set the clock's analog time. You will need to do this occasionally to synchronize the clock dial to the digital display and printer.

To open the front cover, turn the clock on its back and remove the two outer screws on bottom of clock. Stand the clock



upright with the back facing you. With both thumbs press down on IN1 and OUT3 buttons while using your fingers to push cover away.

The clock dial panel is shipped locked into place. You have the option of removing the tab that locks the clock panel into place for easy access when setting the clock. If you remove the locking tab, we suggest you keep the tab. To remove the locking tab, unfasten the screw located in the front cover and remove the screw and clip. The screw and clip may be stored by securing it into the post screw hole below where it was removed. It is not necessary to remove the locking tab to install the battery or to adjust the clock dial time setting.

Once the front cover is open, you will be able to install the battery and to set the time on the dial. Opening the front cover also allows you to access the ribbon cassette.

V. Setting the ATR120

Programming Hints

The ATR120 incorporates features to make the task of time and attendance faster and easier.

The simplest way to program the ATR120 is to set all of the functions, at one time, while in the program mode. Although, you may set functions independently it is recommended that you follow the program sequence.

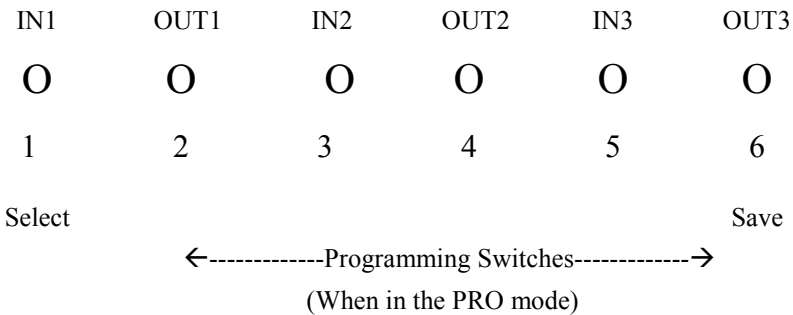
When programming the time, and the time of day for events to occur, the display will show time in a 24-hour format (i.e. 3:00 PM will be 15:00).

To place the clock in the program mode, set the program switch located on back of clock, in the upper left corner from “NOR” to “PRO” (top position). This now activates the 6 manual card-positioning switches (“IN1”, “OUT1”, etc.) on top of the

clock to function as program switches. With the dust cover open you will find that these program switches are numbered 1 – 6 to simplify programming the ATR120

The first switch on the top left of the clock (IN1) functions as the feature selection switch and will advance you through the program mode. This switch also allows you to skip over a feature and advance to the next feature without programming. Once a feature is selected, switches “OUT2” through “IN3” will be used for programming. We'll refer to the switches as buttons one through six.

The last switch on the right, button six or “OUT3” is used to save the program selection to memory. **IMPORTANT: If OUT3 is flashing in the lower right corner of the display, the programmed changes have not been saved.**



To return to the original factory settings press the “RESET” button located to the left of the PRO/NOR switch on back of the clock.

Note: Each time you modify the program, you must press button six to save the program changes. OUT3 flashes in the lower right corner of the digital display until the programming change is saved. If OUT3 is flashing in the lower right corner of the display, the program changes have **not** been saved.

Selecting day of week

The ATR120 can be programmed for either weekly or biweekly pay periods.

For **weekly pay periods**, program the time clock as follows:

- **Enter the programming mode** by setting the switch on the back of the ATR120 to the PRO position. The display indicates **1-31**.

- **Press button four** once. The display reads **2-1**. The 2 indicates this is a weekly pay period. **OUT3** flashes in the lower right hand corner of the display. This will flash until the changes are saved.
- **Press button five** to choose the current day of the week for your weekly pay period.
 - 2-1 = Monday
 - 2-2 = Tuesday
 - 2-3 = Wednesday
 - 2-4 = Thursday
 - 2-5 = Friday
 - 2-6 = Saturday
 - 2-7 = Sunday
- **Press button six** to save your settings. **OUT3** is no longer displayed.

For **biweekly pay periods**, you must select the current day of week within the pay period. Example: if the current day of the week (today) is Monday you must choose which Monday, the first (3-1) or second Monday (3-8) of the pay period.

- **Enter the programming mode** by setting the switch on the back of the ATR120 to the PRO position. The display reads **1-31** or the last setting.
- **Press button four twice**. The display reads **3-1**. The 3 indicates this is a biweekly pay period. **OUT3** flashes in the lower right hand corner of the display. This will flash until the changes are saved.
- **Press button five** to choose the first day of your weekly pay period.
 - 3-1 = first Monday of pay period
 - 3-2 = first Tuesday of pay period
 - 3-3 = first Wednesday of pay period
 - 3-4 = first Thursday of pay period
 - 3-5 = first Friday of pay period
 - 3-6 = first Saturday of pay period
 - 3-7 = first Sunday of pay period
 - 3-8 = second Monday of pay period
 - 3-9 = second Tuesday of pay period
 - 3-10 = second Wednesday of pay period
 - 3-11 = second Thursday of pay period
 - 3-12 = second Friday of pay period
 - 3-13 = second Saturday of pay period
 - 3-14 = second Sunday of pay period

- **Press button six** to save your settings. **OUT3** is no longer displayed.

Setting the time

- Make sure the ATR120 is in programming mode.
- **Press button one once** to start setting the current time. This mode starts the clock-timing device. The display indicates the time at which the clock is currently set. Depending on how long you have been in the program mode, the display may advance from the default setting of **00 5:00**.
- **Press button four** to set the hours (24-hour format; 0-23 with 0 = midnight). The display reads **00 6:00** with **OUT3** flashing in the lower right hand corner. Advance to the correct hour. Note: Hold down button four to rapidly advance the hour.
- **Press button five** to set the minutes. The display reads **00 6:50** with **OUT 3** flashing in the lower-right hand corner. Advance to the correct minutes.
- **Press button six** to save the time setting. **OUT3** disappears. The seconds reset to 0.

Setting the year, month, and date

- **Press button one once** (twice if just entering the programming mode) to set the year, month and date. The display indicates the last programmed year, month, and date with the default being **99 1-1**.
- **Press button three** to set the year. The display reads **00 1-1** with **OUT 3** flashing in the lower right-hand corner of the display. Press button three until the correct year is set.
- **Press button four** to set the month (1-12, with 1= January, 2 = February, etc.) **OUT3** flashes in the lower-right hand corner of the display. Press button four until the current month is set.
- **Press button five** to set the date. **OUT3** flashes in the lower-right hand corner of the display. Press button five until the current date is set.
- **Press button six** to save the year, month, and date settings. The display should show the correct month and date.

Setting Daylight Saving Time

- **Press button one once.** If you are entering the programming mode for the first time, you will need to press button one three times to set Daylight Saving Time. The display reads **S1 0-0** with S1 indicating the start of Daylight Saving Time.
- **Press button four** to set the month (1-12, with 1= January, 2 = February, etc.) The display reads **S1 0-0** with **OUT3** flashing in the lower-right hand corner of the display. Press button four until the month Daylight Saving Time should start is set.
- **Press button five** to set the day of the month. **OUT3** flashes in the lower-right hand corner of the display. Press button five until the day Daylight Saving Time should start is set.
- **Press button six** to save the month and day Daylight Saving Time should start. **OUT3** will no longer be displayed indicating this setting has been saved. The program will automatically switch to setting the ending date for Daylight Saving Time. The display should now read **S2 0-0**.

The ending date for Daylight Saving Time is set exactly the same as the beginning date.

- **Press button four** to set the month (1-12, with 1= January, 2 = February, etc.) The display reads **S2 0-0** with **OUT3** flashing in the lower-right hand corner of the display. Press button four until the month Daylight Saving Time should end is set.
- **Press button five** to set the day of the month. **OUT3** flashes in the lower-right hand corner of the display. Press button five until the day Daylight Saving Time should end is set.
- **Press button six** to save the month and day Daylight Saving Time should end. **OUT3** will no longer be displayed indicating this setting has been saved. The display will return to the starting date.

Note: The starting and ending dates for Daylight Saving Time must be set each year. Both the starting and ending dates must be set for Daylight Saving Time to be operational. At midnight on the starting date, the clock will automatically advance one hour. At midnight on the ending date, the clock will go back one hour. For

example, on the first date of Daylight Saving Time, the clock will advance from midnight to 01:00. At midnight on the last day, the clock will change from 00:00 to 23:00.

Setting the day change time

- **Press button one once.** If you are entering the programming mode for the first time, you will need to press button one four times to set the Day Change Time. The display should read **5 : 00**, indicating the day change time. Five o'clock AM is the default time for the day change to take place. This is the time that the ATR120 will change to printing the time on the next row for the next day. You may want to change this to another time, such as midnight (00:00).
- **Press button four** to adjust the hour (00~23h) the day change should take place. **OUT3** flashes in the lower right-hand corner of the display indicating this setting has not been saved.
- **Press button six** one time to save the day change time setting.

Setting the printing format

The ATR120 will print in standard minutes (60) or in decimal hundredths (100) of an hour. For example, 12:45 will be printed 12:45 in the standard minute format or as 12.75 if hundredths is chosen. PM hours are indicated by minutes being over scored. Example: Two fifteen in the afternoon would print as 02:15 in 12-hour format or 14:15 in 24-hour format.

- **Press button one once.** If you are entering the programming mode for the first time, press button one five times to set the printing format. The display should now read **Cd 60**, indicating the ATR120 is set to print standard minutes.
- **Press button five** to change the printing format. The display will toggle back and forth between **Cd 60** and **Cd 100** with **OUT3** flashing in the lower right-hand corner. **Cd 100** represents minutes being printed in a decimal hundredths format.
- **Press button six** once to save the print format. **OUT3** will no longer be displayed.

Setting the two-color printing and internal signal tone

Time cards can be audited much easier by highlighting in red, punches outside the normal work schedule. Using the internal audible signal will remind your employees of start and stop times in their work schedule. You can even have a warning signal two minutes before start time to alert your employees. This program allows for a total combination of 32 scheduled events. Events can be selected to allow a ribbon color change or a signal tone or a combination of both. Each event can be programmed for the time of day in hours and minutes and the day of week.

The events available are:

- Clock to print in RED
- Clock to print in RED with SIGNAL
- Clock to print in BLACK
- Clock to print in BLACK with SIGNAL
- Clock to SIGNAL without a color change

Note: The default ribbon color is black. The clock has to be programmed at a specific time to print in red. Once a color change occurs the clock will print in that color until an opposite color change is activated.

The following is a sample schedule of events for a 8:00 AM to 5:00 PM work schedule with a one hour lunch period from 12:00 Noon to 1:00 PM (13:00) This schedule has the clock printing in RED at 8:01 AM to 12 Noon. Any late in or early out punches will print in RED, The clock will print in BLACK during the lunch period. Then printing in RED at 1:01 PM (13:01) until 5:00 PM (17:00). At 5:00 PM the clock will print in BLACK allowing for exit punches. At 5:30 (17:30) the clock will return to RED to note OT punches or late outs. The clock will return to BLACK at 07:30 in the morning to allow for IN punches for that day. The internal signal will sound at 8:00 AM, 12:00, 1:00 PM and 5:00 PM audibly notifying start and stop times. On the chart on the next page, the IN/OUT under each event denotes the event selection shown on bottom of the display during the programming of these events.

Event Max 32	Print in Red IN1	Print in Black OUT1	Signal Only IN2	Print Red & Signal IN1 IN2	Print Black & Signal OUT1 IN2
1			08:00		
2	08:01				
3					12:00
4			13:00		
5	13:01				
6					17:00
7	17:30				
8		07:30			

<u>Event</u>	<u>Time</u>	<u>Description of Event</u>
1	8:00	SIGNAL <i>Only</i> to denote start of work schedule
2	8:01	Color changes to RED to denote late or early lunch punches
3	12:00	SIGNAL noting start of lunch period and color change to BLACK SIGNAL
4	13:00	SIGNAL <i>Only</i> to denote end of lunch period
5	13:01	Color change to RED to show late in punches or early end of day out punches
6	17:00	SIGNAL to denote end of work schedule and color change to BLACK
7	17:30	Color change to RED to indicate possible overtime
8	07:30	Color change to BLACK to allow morning in punches

When the display shows **01 5:00**

Press **button two** to select the event (**IN1**, print in red or **OUT1**, print in black, etc.)

Press **button three** to confirm the event (**OUT3** will continue to flash).

Press **button four** to select the hour of the event.

Press **button five** to select the minute the event will occur.

To have the event occur each day (*Recommended*), **press button six** to save the event and advance to the next scheduled event, **02 5:00**.

If you do not want an event to occur each day, you may select the day(s) of the week you want the event to occur. After selecting the minute the event will occur, press button two. At the bottom of the display, the event indicator will be displayed and OUT 3 will be flashing. As the top of the display, SUN will be flashing. To select SUN, press button three or to advance to MON, press button two. Remember to use button three to save the day of the week. Cycle between buttons two and three as

necessary to set the day(s) the event should occur on. The event will occur on the day(s) shown across the top of the display.

It is recommended that a program chart be used to create a schedule to assist in programming this feature. The typical company uses eight events, similar to the previous example on page 11.

Program	Print in Red IN1	Print in Black OUT1	Signal IN2	Print Red & Signal IN1 IN2	Print Black & Signal OUT1 IN2
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

Setting signal duration

The ATR120 can be set to produce a signal lasting from zero (0) 0 to sixty (60) seconds, with the default being five (5) seconds.

- **Press button one once.** If you are entering the programming mode to set or adjust of the signal duration, press button one seven times. The display should now read **5**, indicating the signal will sound for five seconds.
- **Press button five** to change the signal duration. The display indicates **5** with **OUT3** flashing in the lower right-hand corner. The 5 represents five seconds. Press the fifth button to choose the signal duration from 0 to 60 seconds.
- Once you have chosen the signal duration, **press button six one time** to save it. **OUT3** will no longer be displayed.

Setting auto column shift print position

This feature *may not* be appropriate for all installations. The auto column shift is a special feature for installations where most or all employees arrive and depart at the same time. Employees who arrive or depart at different times may be required to manually reset the card column position. Failure to do so will result in printing in the wrong location on the time card. For ease of operation of the ATR120, caution should be used in selecting this feature. If the auto column shift position is manually changed, the clock will return to the scheduled auto position after 7 – 8 seconds.

The auto column shift feature allows for a total of 18 horizontal moves. It is recommended that a program chart be used to create a schedule to assist in programming this feature.

A sample program chart is shown below for an 8:00 AM to 5:00 PM shift with lunch between 12:00 Noon and 1:00 PM. Employees may punch in after 7:30 AM. Employees start lunch at 12:00 PM and must take at least a 15-minute lunch to punch in IN2 column. AT 5:00 PM the clock will advance to OUT2. Overtime punching is allowed after 5:30 PM. And a minimum of 30 minutes is permitted before moving to the column OUT3 at 6:00 PM.

EVENT	IN1	OUT1	IN2	OUT2	IN3	OUT3
1	07:30	12:00	12:15	17:00	17:30	18:00
2						

Use this chart to plan your Auto Column Shift times.

EVENT	IN1	OUT1	IN2	OUT2	IN3	OUT3
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						

To program the auto column shift:

- **Press the first button one time** to advance to programming the auto column shift feature. If you are entering the programming mode to adjust the auto column shift position you will need to press the first button eight times. The display indicates **01 5:00** with all days of the week displayed.

01 indicates the event sequence number (01-18).

5:00 indicates the default time (5:00 AM) of the event

- **Press button two** to advance through column selections. The column position (IN1, OUT1, icons) will flash at the bottom of the display. The day of week icons are displayed at the top.

IN1 First In Punch of the shift
 OUT1 Out Punch (Lunch)

IN2	In Punch (Lunch)
OUT2	Out Punch end of shift
IN3	In Punch Overtime Period
OUT3	Out Punch Overtime Period

- Select the column position by **pressing button three**. The column position icon at the bottom of the display will stop flashing. ALL days of the week will appear at the top of the display. To select this move everyday of the week (recommended), **press button six** to select and to advance to the next column selection.
- To select certain day(s) of the week, after pressing button three to select column position (icon at bottom of display will stop flashing), **press button two**, and **SUN**day icon will flash at top of display. **Press button three** to select that day. **Press button two** to advance to the next day. Pressing button two without pressing button three will skip that day of the week. **Press button six** to save selections and advance to next event.
- To select the hour for the column change, **press button four**.
- To select the minutes for the column change, **press button five**.
- **Remember to press button six to save** and advance to the next programming sequence. Each sequence is programmed the same way.

Selecting how the hour will print

The ATR120 will print hours in either 12- or 24-hour format.

- **Press button one once**. If you are entering the programming mode to adjust the hour printing format, you will need to press button one nine times. The default setting is 24H.
- **Press button four** to toggle between 12- and 24-hour printing format (12H and 24H). **OUT3** flashes on the display.
- **Press button six** to save the hour printing format. **OUT3** no longer flashes on the display.

Setting the password

The ATR120 allows for the use of a four-digit number as a password to protect programmed settings. When the password is set, you will be asked to enter it each time you enter the programming mode. It is recommended that if a password is used that you write it down and store it in a safe place. If an incorrect password is entered you will be prevented from entering the programming mode. *Note: If correct password cannot be entered, the clock can be reset to original settings by pressing the “RESET” switch on back of clock next to the program switch. Doing so will reset ALL functions, requiring the ATR120 to be re-programmed.*

- **Press button one once.** If you are entering the programming mode to set or adjust the password, press button one ten times. The display indicates **00 00**.
- **Press button four** to choose the first two digits of the password. You may use any digits from 00 to 99. **OUT3** flashes in the lower right corner of the display.
- **Press button five** to choose the last two digits of the password. You may use any digits from 00 to 99. **OUT3** flashes in the lower right corner of the display.
- **Press button six** one time to save the password setting. The flashing **OUT3** disappears.

Once the password has been set, when you enter the program, the ATR120 will display **0000**. The password must be entered and button six pressed, then the time clock will display and enter program mode. If the password is incorrect, then the ATR120 will beep and Error Message **E-40** is displayed. You will not be allowed to enter the programming mode until the correct password is entered.

Exiting program mode

When you have finished programming the ATR120, reset the program switch on the back of the clock, to the NOR position and **press button one** once to return to the normal mode. The ATR120 will now display the current time and date and is ready for operation.

VI. Installing your ATR120

The ATR120 can be installed in any normal office environment. It may be installed on a smooth, flat surface or wall-mounted. No special wiring is needed. However,

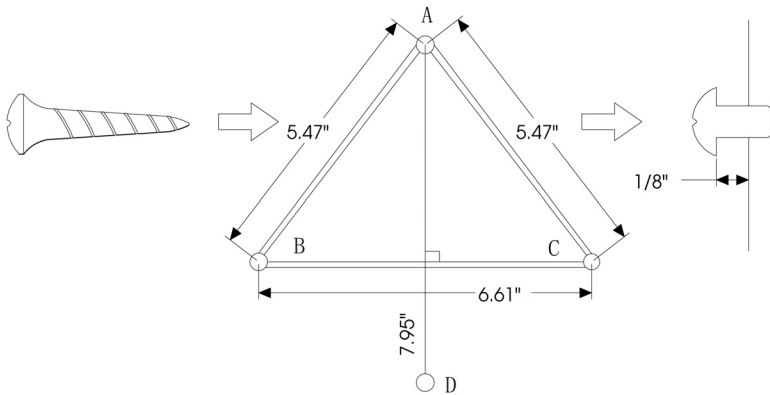
we recommend installing the ATR120 on a separate power circuit. We do not recommend using a power strip. Always follow basic safety precautions when using this product to reduce the risk of injury, fire, or electric shock.

Caution:

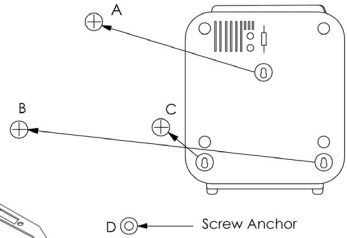
- Read and understand all instructions in the *ATR120 User's Manual* before installing and operating this time clock.
- Do not install the ATR120 in areas where it may be exposed to direct sunlight or high temperatures, such as near a heater.
- Do not install the ATR120 where it may be exposed to excessive dust or to high humidity, resulting in condensation.
- Do not use this product near water or when you are wet. If the product comes in contact with any liquids, unplug the electric cord immediately. Do not plug the product back in until it has thoroughly dried.
- Securely install the time clock on a stable, level surface, or if wall mounting the ATR120, follow the wall mounting instructions to install it securely on the wall. Place the time clock where no one can step or trip over the cord. Do not place objects on the power cord that can cause damage or abrasion.
- If this product does not operate normally, please consult the "Troubleshooting" section of this manual.

Wall-mounting

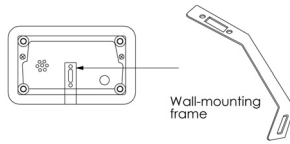
1. Following the diagram, insert a screw about 94cm to 124cm above the floor. Allow about 1/8" between the screw head and the wall.



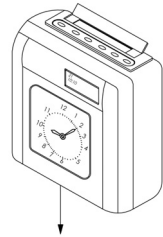
2. Following the diagram, insert screws at positions B and C. Place a screw anchor in the wall at position D.



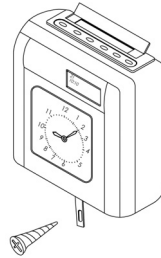
3. Use the two screws (M4X10) to attach the wall-mounted frame to the bottom of the time clock.



4. Line up the keyholes on the back of the time clock with the screws in the wall. Slide the ATR120 downwards to firmly mount it on the wall.



5. Place a screw in the bottom hole of the wall-mounting frame to secure it to the wall.

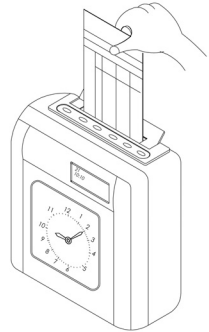


VII. Operating your ATR120

The Clock will print in the column indicated by the red light above the IN/OUT buttons. Press the appropriate IN or OUT button to choose the print position for time cards. The print position will not change until another column button is pressed. If an auto shift schedule is programmed, then the ATR120 will automatically shift from column to column. If manually changed, while in auto shift, the clock will return to the programmed position after 7 or 8 seconds.

In Morning/Out Lunch		IN Lunch/Out End of Day		OT In/OT Out	
IN1	OUT1	IN2	OUT2	IN3	OUT3

To print, insert a time card into the receiver with the pay period selected, facing you. *Note: The clock cannot differentiate the pay period* and will print on either side of the time card. The card is automatically pulled in and printed. Do not attempt to pull the card out during the printing operation or to insert any objects other than time cards. Doing so can result in damage to printer.



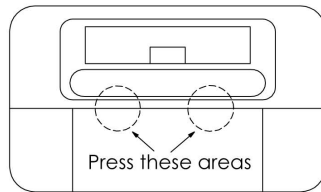
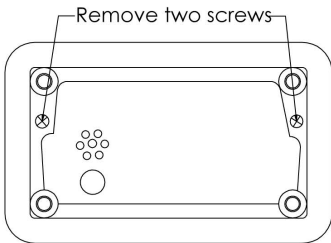
VIII. Maintenance

Several simple suggestions may extend the life of your ATR120.

- Close the anti-dust cover after operation.
- When the case is dirty, wipe it with a damp soft cloth. If necessary, a mild detergent may be used. Do not use any type of thinner or other chemical for cleaning because the chemical could damage or discolor the case.

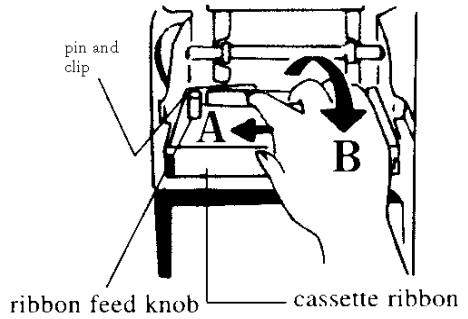
Replacing the ribbon

When the printing on the time card becomes light or hard to read it will be necessary to replace the ribbon. Use the ATR122 replacement ribbon cassette. Attempting to “re-ink” the cassette will cause permanent damage to the printer.



To open the front cover, turn the clock on its back and remove the two outer screws. Stand the clock upright with the back facing you. With both thumbs press down on IN1 and OUT3 buttons while using your fingers to push cover away.

Next, remove and discard the pin and clip. Remove the ribbon cassette by first sliding it left and then upwards as shown by the illustration (A & B). Place the new ribbon into the ATR120. It is not necessary to replace the pin and clip. Turn the ribbon feed knob counterclockwise until the ribbon is taut. Close the front cover.

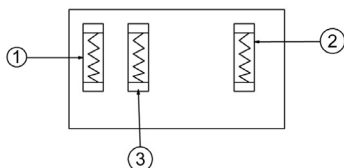


IX. Troubleshooting

Problem	Possible Cause	Check
Clock does not accept time cards	AC power is OFF Power cord is disconnected AC fuse blown DC fuse blown Still in program mode	Restore power Restore cord to outlet Replace AC240V 1A fuse Replace DC 12V 2A fuse Return switch to NOR position
Printing light	Worn ribbon Ribbon cassette not seated correctly	Replace ribbon cassette Reinstall ribbon cassette
Printing in wrong position	Incorrect pay period starting day Time card inserted incorrectly	Set correct day Insert card correctly
Not printing	Printing head fuse blown Ribbon cassette not seated correctly	Replace DC 12V 1.5 Amp fuse Reinstall ribbon cassette
Clock stopped	AC power is off Power cord is disconnected AC fuse blown	Restore power Restore cord to outlet Replace AC240V 1A fuse
Analog clock slow or stopped	Battery weak Out of synchronization	Replace AA battery Reset to digital display

Location of fuses

The fuse panel is located on the back of the ATR120 in the lower left corner. To access fuses, disconnect the power from the clock and remove the screw securing door. Replace blown fuse with only the same rated fuse. Do *not* substitute.



Fuse Panel

1. Printer Head Fuse (1.5A DC 12V)
2. AC Fuse (1A AC 240V)
3. DC Fuse (2A DC 12V)

Error Codes

The ATR120 has built-in diagnostics to guide you in maintaining your time clock. These Error Codes, when occurring, will be seen on the display.

Code	Meaning of Error	Check
E-01	Clock motor or sensor failure	Unplug and reconnect power cord or turn the program switch on-off twice, letting the clock readjust.
E-03	Card positioning	Contact dealer or factory
E-05	Card does not feed correctly	Re-insert card and print.
E-30	Printer head fails to return to home position	Contact dealer or factory
E-33	Can't change color	Check that the ribbon is installed correctly. Contact dealer or factory
E-35	The card can't be returned	Make sure there are no obstructions in card receiver Contact dealer or factory
E-37	Sensor cannot locate card	Contact dealer or factory
E-38	Printer head jammed	Contact dealer or factory
E-40	Wrong password entered	Enter the correct password

For any other Error Codes contact your dealer or Acroprint Time Recorder.

To return to the original Factory settings, press the reset switch, located on the back of the clock next to the PRO switch. When resetting the clock make sure the PRO/NOR is in the NOR position. After resetting enter the PRO mode to reprogram the clock.