

ATR120
Electronic Time Recorder



User Manual

Lithium Battery Caution:

The circuit board on this clock is populated with a lithium battery to protect data or programs stored in the Random Access Memory (RAM). Do not, under any circumstances, attempt to replace the lithium battery in the clock. Failure to comply may void your warranty. Battery replacement should be done by qualified personnel wearing the proper eye protection.

CAUTION: Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instruction.

<p>This product utilizes a battery that contains Perchlorate Material. Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate</p>
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Table of Contents

1. Before You Start	1
What's In the Box	1
Features:	2
2. Clock Overview	3
2.1 LCD Display	3
2.2 Keypad	3
2.3 Back Case: Switches	3
2.4 Back Case: Power Connector / Bell Connections	3
2.5 Ribbon Life	4
2.6 Operational Battery Pack	4
3. Function Keys	5
4. Menu Trees: Quick Reference	6
Mode b000: Date & Time Settings	6
Mode b001: Pay Period / DST Settings	7
Mode b002: Alarm Schedule	8
Mode b003: Column In-Out Printing Position	9
Mode b004: Print Color Change Settings	10
5. Function Groups	11
5.1 Function Group Overview	11
5.2 Function Group Table by Mode	11
6. Setting the Time Recorder	12
7. Time & Date Settings (Mode b000)	13
7.1 Setting the Year	13
7.2 Setting the Month/Date	13
7.3 Setting the Hour/Minute	13
7.4 Setting 12 / 24 Hour Time Format	13
7.5 Setting the Day Change (Hour and Minute)	14
7.6 Set Vertical Printing Position (Up/Down)	14
7.7 Setting the Keyboard Beep	14
7.8 Setting the Menu Password	14

8. Pay Period Settings (Mode b001)	15
8.1a Setting a Monthly Pay Period.....	15
8.1b Setting a Weekly Pay Period.....	15
8.1c Setting a Bi-Weekly Pay Period	15
8.2 Day of Week Print Format (Language)	16
8.3 Minute System	16
8.4 Setting DST Start (Month & Date)	16
8.5 Setting DST Start (Hour & Minute)	16
8.6 Setting DST End (Month & Date)	17
8.7 Setting DST End (Hour & Minute)	17
9. Setting Alarm Schedules (Mode b002)	18
10. Setting the IN-OUT Schedule (Mode b003)	19
11. Setting 2-Color Printing (Mode b004)	20
12. Master Resets	20
13. Troubleshooting	21
14. Replacing Ribbon Cartridge	22
15. Cleaning the ATR120	22
16. Connecting External Signal Devices	23
17. Specifications	23
18. Error Codes	24
19. Wall Mounting Instructions	24
Supplies, Parts & Accessories	24
Acroprint® Limited Warranty	25
Product Registration Card	26

1. Before You Start

Please read this manual thoroughly before operating your time clock to avoid damage and to ensure proper operation.

What's In the Box

Unpack clock. Inspect clock for any damages that may have occurred during shipment. Check the box contents for any missing items (see list of contents below). If any damages are found or if any parts are missing please contact Acroprint Customer Service at (800) 334-7190.

- ATR120 Time Recorder
- (2) Clock Cover Keys on Key Ring
- 13vDC 1000mA Switching Power Supply
- User Manual
- Extended Service Plan Order Form (06-0343-000)
- (25) Sample ATR121 Weekly/Bi-Weekly Time Cards
- Clock Wall Mounting Template
(Also available for download at <http://.support.acroprint.com>)
- (3) Mounting Screws
- (3) Plastic Wall Anchors

Do not attempt to service the ATR120 yourself. Disassembling the clock will void the warranty. Always follow the instructions in the user guide.

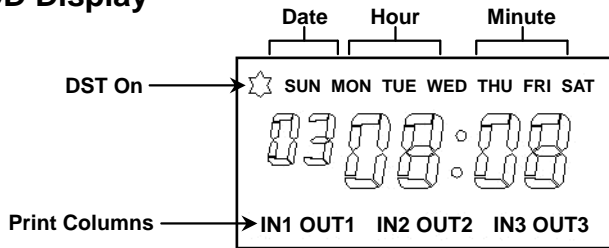
- Do not place the clock in direct sunlight as this could discolor or deteriorate the plastic.
- The clock is designed for indoor use in a temperature range of 32-104° F (0-40° C). Keep the clock away from heat sources such as radiators. Avoid dusty environments or exposure to chemicals.
- The clock is not waterproof. It is designed for operational relative Humidity of 10-60%.
- The clock may be placed upright on a solid surface or mounted to a wall with mounting screws. Use the enclosed template & screws for wall mounting. Avoid locations where the device will be susceptible to vibrations and shock, such as a slamming door.
- The clock warranty does not cover defects or damages arising from improper installation, improper storage, abuse, or unauthorized service.

Features:

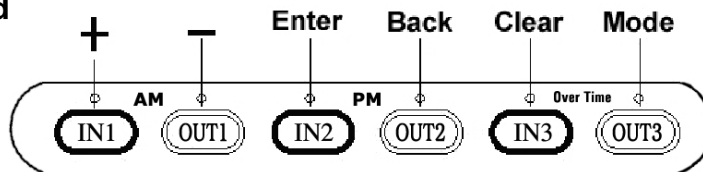
Display Synchronized to Clock Face	Yes
Display Language	English
Printed Day Format (Languages)	English, Spanish, French, German, Italian, Japanese, Date, Days 1-7, No Day
Auto Card Feeder	Yes
Printing Method	9-Pin Dot Matrix
Two Color (Red/Black) Printing	Yes
Perpetual Calendar	Yes
Operational Battery Backup	Yes (Optional)
Power Failure Memory Retention	Yes
LCD Hour Display Format	12 or 24 hour
Print Format	Min, 100 ^{ths} , 20 ^{ths} , 10 ^{ths}
External Alarm	Connection Available
Programmable Column Changing	Yes
Available Time Cards	Wkly/Bi-Wkly, Monthly

2. Clock Overview

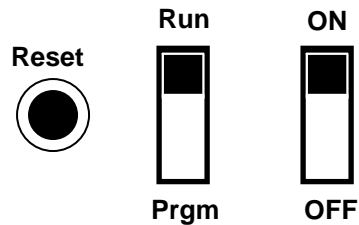
2.1 LCD Display



2.2 Keypad



2.3 Back Case: Switches

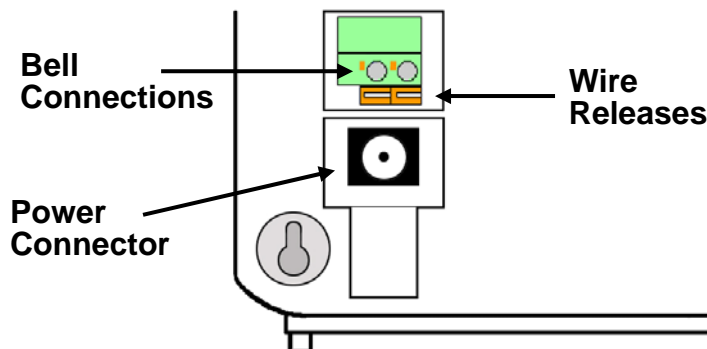


Reset Button: restarts clock (same as powering off and back on)

Prm Switch: Move to "Prm" to access clock settings.

On/Off Switch: Move to "On" to enable battery backup of clock settings. Note that if the switch is moved to "Off" and the clock is unplugged for a few minutes some user settings may be lost. The purpose of the switch is to save battery power for memory backup when the clock is not being used.

2.4 Back Case: Power Connector / Bell Connections



2.5 Ribbon Life

The ATR122r ribbon (39-0127-002) will typically last 3 months with 50 employees punching 6 times per day (~18,000 punches). Actual ribbon life will vary based on the number of punches, humidity, temperature and exposure to air.

2.6 Operational Battery Pack

The ATR120 with Operational Battery Pack (01-0212-002) is available for customers that require backup power . The Battery Pack (58-0109-001) is a 9 cell NiCad (Nickel Cadmium) battery pack that charges when the ATR120 is plugged in. In the event of a power failure the clock will instantly switch to battery power without any interruption in service. The operational battery pack allows for full operation of the clock. The battery pack is available as an add-on to standard clocks but must be factory installed or installed by a certified Acroprint dealer.

Battery Pack Specs: (new battery)

Voltage: DC 10.8v

Capacity: 1000mAh

Standby mode: ~40 Hr Reserve Power

Fully charged: The clock has been tested for over 3 Hrs and 6,000 continuous punches.

Note: Actual battery life depends on many factors such as battery age, temperature, discharge history, etc., and can vary greatly depending on these factors. The ATR120 should be plugged in for at least 12 hours to fully charge the battery pack before initial use.

Warning:

Batteries may leak, overheat, catch fire or explode if proper safety & handling procedures are not followed:

- DO NOT get batteries wet
- DO NOT place batteries near heat sources
- DO NOT use any power supply other than the original one supplied with the time recorder.
- DO NOT inverse polarity connection
- NEVER throw batteries into fire. Properly dispose of batteries according to local rules and regulations.
- DO NOT allow anything to short circuit the batteries
- Dropping a battery may damage the battery.

Replace the battery if you suspect any damage.

3. Function Keys

The In-Out buttons on top of the clock serve as function keys in programming mode. Note that the functions are printed on the card door above the column numbers.

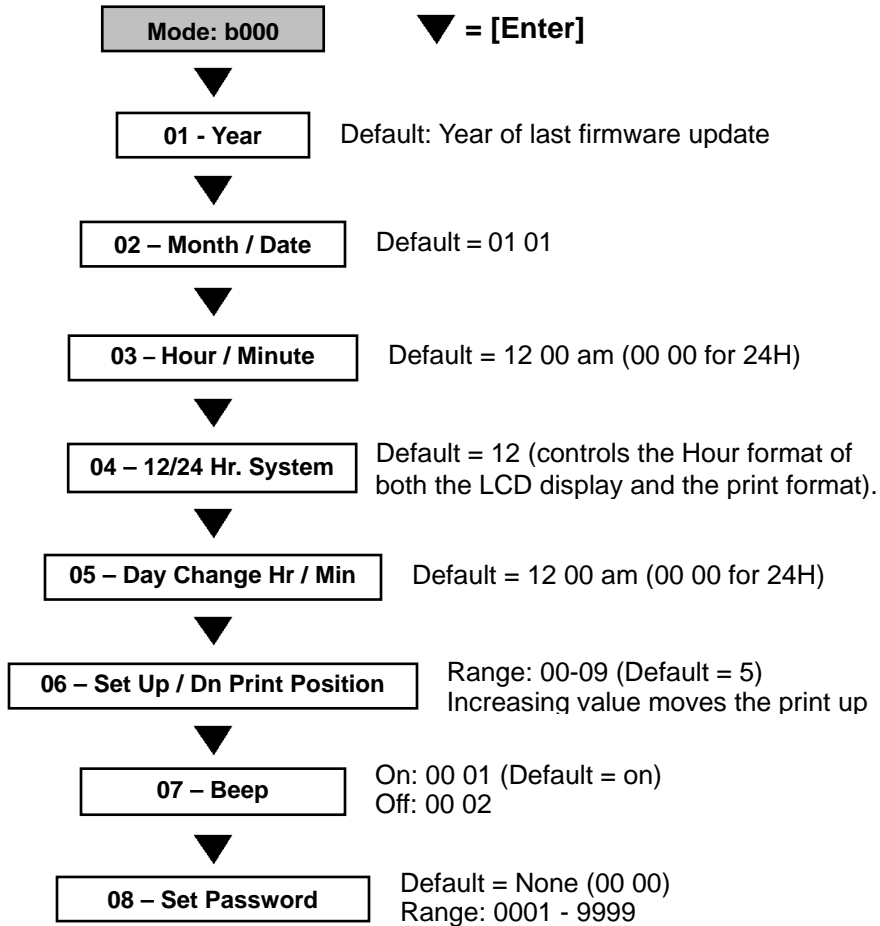
IN1	=	<input type="button" value="+"/>	Increase the set value by 1
OUT1	=	<input type="button" value="-"/>	Decrease the set value by 1
IN2	=	<input type="button" value="Enter"/>	Register the set value
OUT2	=	<input type="button" value="Back"/>	Go to previous setting
IN3	=	<input type="button" value="Clear"/>	Cancel the set value
OUT3	=	<input type="button" value="Mode"/>	Select Mode (Function Group)

The switches on the back of the clock have the following functions:

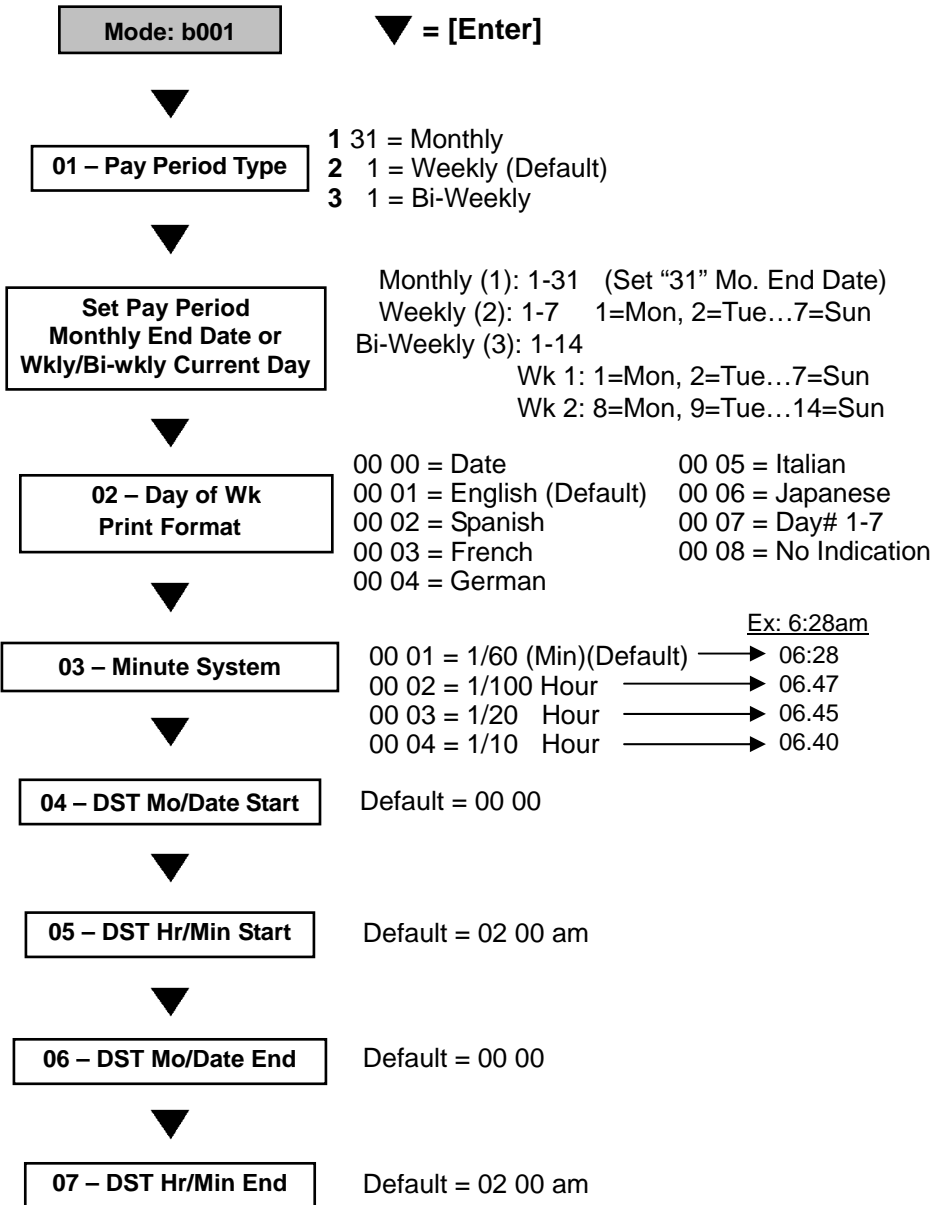
<input type="button" value="Run / Prgm"/>	Run – normal use. Prgm = Program Mode (for changing settings)
<input type="button" value="On / Off"/>	Turn clock memory battery On or Off (conserves battery when clock isn't being used)
<input type="button" value="Reset"/>	Restart clock

4. Menu Trees: Quick Reference

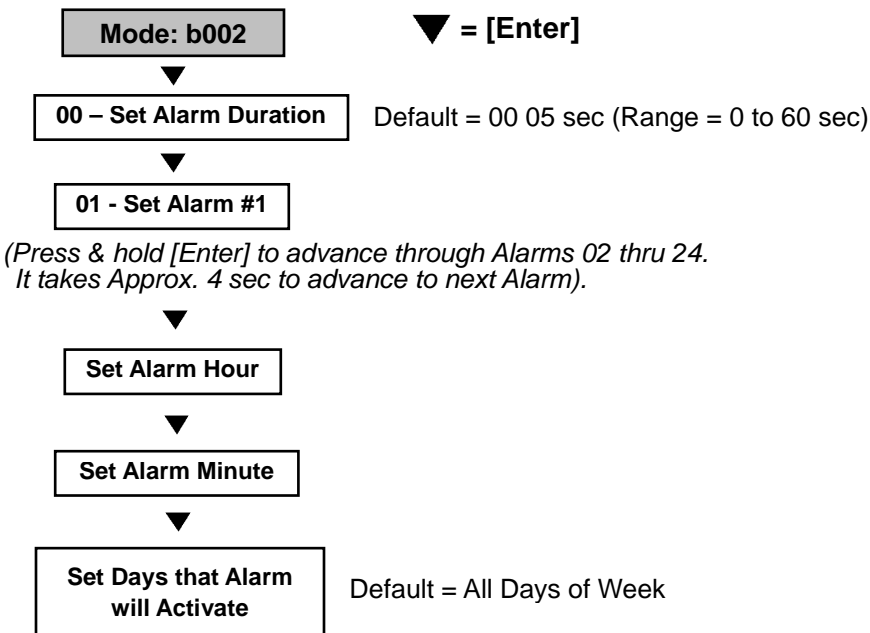
Mode b000: Date & Time Settings



Mode b001: Pay Period / DST Settings



Mode b002: Alarm Schedule

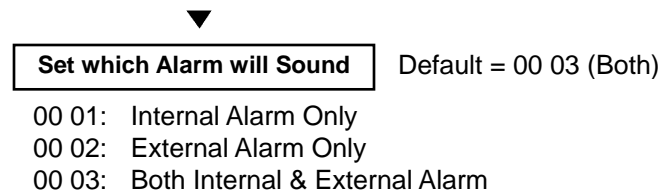


“Sun” will flash (unless already removed)

Press [Enter] to advance through each day of the week (days will flash when selected) or press [Clear] to accept all days of the week and to next Alarm setting

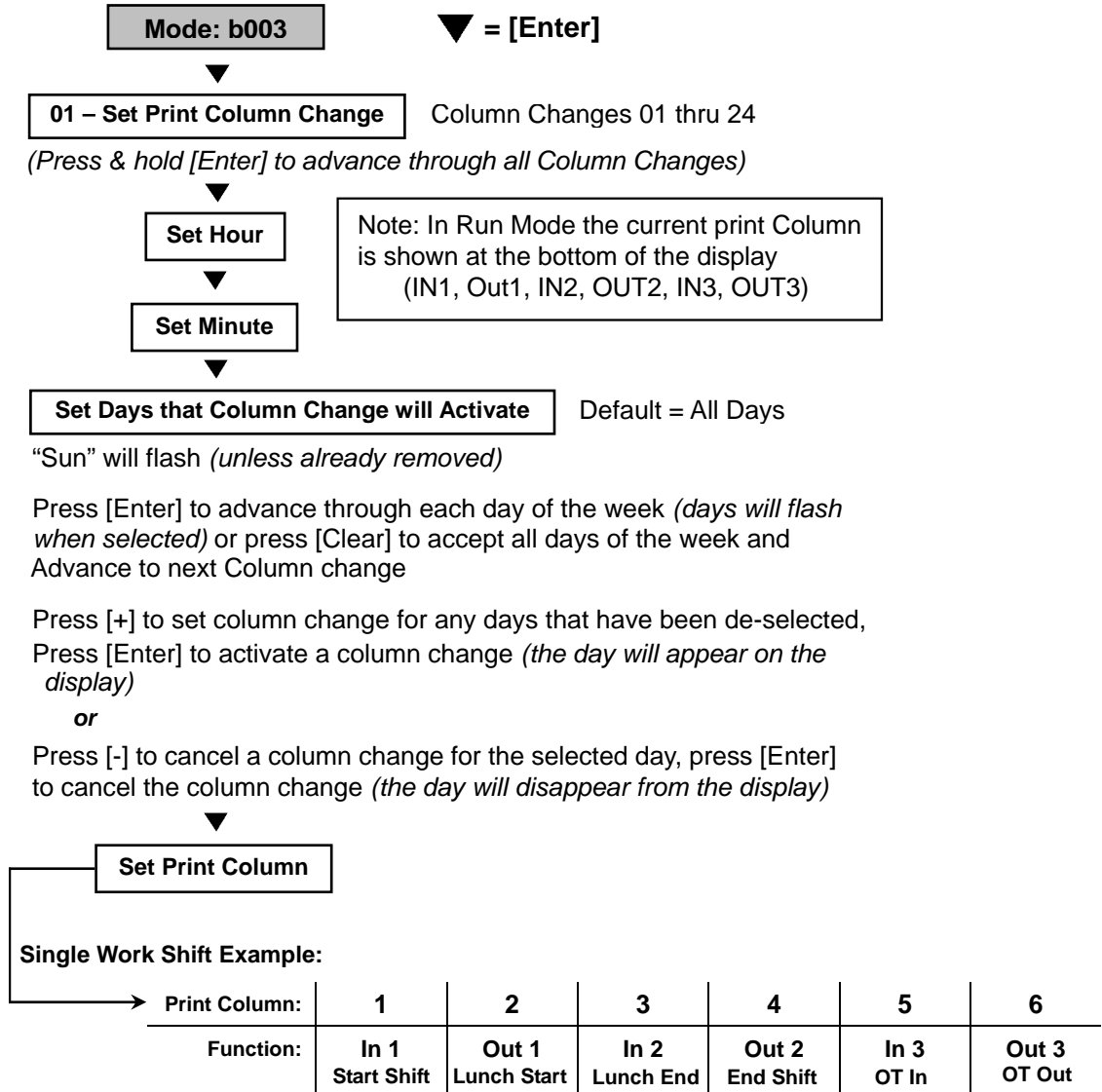
Press [+] to activate alarm for any days that have been de-selected,
Press [Enter] to activate the alarm (the day will appear on the display)
or

Press [-] to cancel an alarm for the selected day, press [Enter] to cancel the Alarm (the day will disappear on the display)



Repeat to set Alarms 02 thru 24

Mode b003: Column In-Out Printing Position



Repeat steps to set Column changes 01 thru 24

Note: If a manual column change is made the clock will shift back to the current programmed column within (5) seconds.

Mode b004: Print Color Change Settings

Mode: b004

▼ = [Enter]

01 – Set Print Color to Red,
Change Time #01

Note: all odd# color changes will set **Red** printing.
All even# color changes will set **Black** printing.

(Press & hold [Enter] to advance through
Color Changes 01 thru 24)

Set Hour

Set Minute

Set Days that Color Change will Activate Default = All Days

“Sun” will flash (if the settings haven’t been adjusted yet)

Press [Enter] to advance through each day of the week (days will flash when selected)
or press [Clear] to accept all days of the week and Advance to next Color change

Press [+] to activate color change for any days that have been de-selected, press [Enter] to
activate the color change (the day will appear on the display)

or

Press [-] to cancel a color change for the selected day, press [Enter] to cancel the color change
(the day will disappear from the display)

Press [Enter] (after cycling through all days) to set the color change

Repeat steps to set Color Changes 01 thru 24

Note: there is no icon on the display to indicate the current print color when an employee is
punching.

5. Function Groups

5.1 Function Group Overview

b000: Year, Month, Date, Hour, Minute, 12/24 Hr, Day change, Printing Position, Keyboard Beep, Password

b001: Pay Period Type: Monthly, Weekly, Bi-weekly, Day of Week Print Format, Minute system, DST Start, DST End

b002: Alarm Duration, Set Alarms (02 - 25), Set Alarm Type

b003: Set Print Column Change Schedule (01-24 changes)

b004: Set Print Color Change Schedule (01-24 changes)

5.2 Function Group Table by Mode

Mode b000

Code	Function
01	Setting the Year
02	Setting the Month/Date
03	Setting the Hour/Minute
04	Setting 12 Hr / 24 Hr Time Format
05	Setting the Day Change (Hour/Minute)
06	Adjusting Printing Position (Up/Down)
07	Setting Keyboard Beep (On/Off)
08	Set Password (to access clock menus)

Mode b001

Code	Function
01	Setting Monthly, Weekly or Bi-weekly Pay Period
02	Day of Week Print Format
03	Setting the Minute system
04	Setting DST Start (month & date)
05	Setting DST Start (hour & minute)
06	Setting DST End (month & date)
07	Setting DST End (hour & minute)

Mode b002

Code	Function
00	Setting the Alarm Duration (0 - 60 sec)
01 - 24	Setting the Alarm (01 - 24) Setting internal alarm, external alarm or both

Mode b003

Code	Function
01 - 24	Setting the IN-OUT Column printing position (01 - 24)

Mode b004

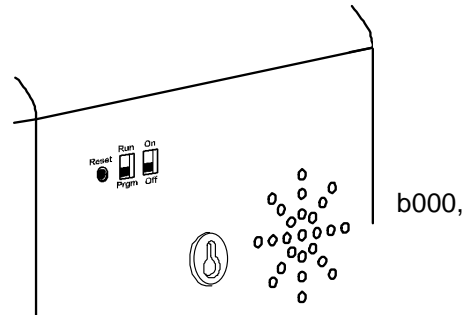
Code	Function
01 - 24	Setting the Red/Black Color Change Schedule (01 - 24)

6. Setting the Time Recorder

Place clock in program mode: move the program switch on back of clock from "Run" to "Prgm".

Press (Out3) to toggle between Program Modes b001, b002, b003 & b004.

Tip: Pressing & holding will slowly advance through the programming menus.



7. Time & Date Settings (Mode b000)

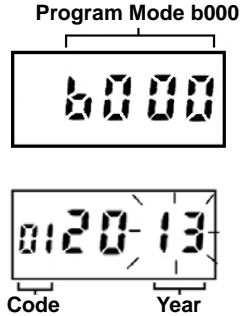
7.1 Setting the Year

Press **Enter** to edit program Code **01**.

The year flashes on the right of the display.

Press **+** or **-** to edit the year.

Press **Enter** to set the year.



7.2 Setting the Month/Date

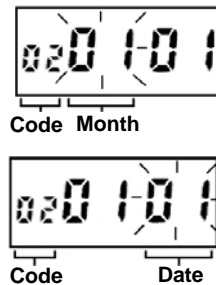
Press **Enter** to edit program Code **02**.

Press **+** or **-** to edit the month.

Press **Enter** to set the month.

Press **+** or **-** to edit the date.

Press **Enter** to set the date.



7.3 Setting the Hour/Minute

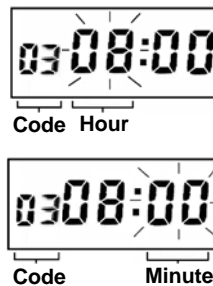
Press **Enter** to edit program Code **03**.

Press **+** or **-** to edit the hour.

Press **Enter** to set the hour.

Press **+** or **-** to edit the minute.

Press **Enter** to set the minute.



7.4 Setting 12 / 24 Hour Time Format

This setting controls the hour format of both the LCD display and print format.

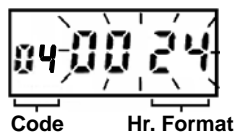
Press **Enter** to edit program Code **04**.

Press **+** or **-** to edit the time format:

12 Hr (Factory Default)

24 Hr

Press **Enter** to set the time format.



7.5 Setting the Day Change (Hour and Minute)

Note: this feature can be used for employees that start their shift on the previous day and end on the next day

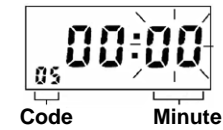
Press **Enter** to edit program Code **05**.

Press **+** or **-** to edit the hour.

Press **Enter** to set the Day Change Hour.

Press **+** or **-** to edit the minute.

Press **Enter** to set the Day Change Minute.



7.6 Set Vertical Printing Position (Up/Down)

Press **Enter** to edit program code **06**.

Press **+** or **-** to edit the printing position (0-9).

Press **Enter** to set the printing position.



Note: Increasing the value from 00 to 09 moves print up a total of 6mm. Decreasing the value moves the print down. "5" is the Factory Default.

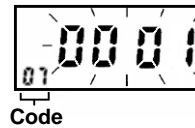
7.7 Setting the Keyboard Beep

Press **Enter** to edit program code **07**.

Press **+** or **-** to set the keyboard beep:

- 00 01 = Beep On (Factory Default)
- 00 02 = Beep Off

Press **Enter** to set the keyboard beep.



7.8 Setting the Menu Password

Note: the menu password prevents unauthorized personnel from accessing the clock menus.

Press **Enter** to edit program code **08**.

Press **+** or **-** to edit the password.

Note: 00 00 is the Factory Default (*no password*).

To remove a password simply change the password back to 00 00.

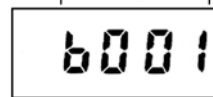
Press **Enter** to set the password.

Press **Mode** to advance to the next programming mode (B001). To exit programming mode slide the switch on the back of the clock to "Run".



8. Pay Period Settings (Mode b001)

Program Mode b001



Pay Period Code	Pay Period Type
1	Monthly Pay Period
2	Weekly Pay Period (Factory Default)
3	Bi-Weekly Pay Period

8.1a Setting a Monthly Pay Period

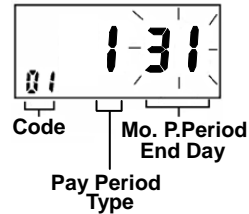
Press **Enter** to enter program Code **01**.

Press **+** or **-** to change Pay Period type to "1"

Press **Enter** to set Monthly Pay Period.

The Monthly Pay Period End Day (31) will begin flashing.

This is the correct end day for the ATR121 Monthly Time Card (*do not change this value*).



8.1b Setting a Weekly Pay Period

Press **Enter** to enter program code **01**.

Press **+** or **-** to change the Pay Period to "2"

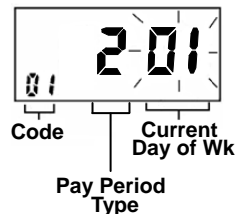
Press **Enter** to set the Pay Period type to Weekly.

Press **+** or **-** to select the current day of week:

1=Mon, 2=Tue, 3=Wed, 4=Thu, 5=Fri, 6=Sat, 7=Sun

Press **Enter** to set the current day of the week.

Note: as the day changes this value will change to reflect the current day of the week.



8.1c Setting a Bi-Weekly Pay Period

Press **Enter** to enter program code **01**.

Press **+** or **-** to change the Pay Period to "3"

Press **Enter** to set the Pay Period type to Bi-weekly.

Press **+** or **-** to select the current day of the week:

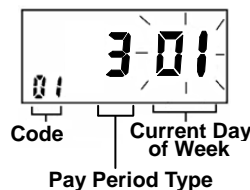
Wk 1: 1=Mon, 2=Tue, 3=Wed, 4=Thu, 5=Fri, 6=Sat, 7=Sun

Wk 2: 8=Mon, 9=Tue, 10=Wed, 11=Thu, 12=Fri, 13=Sat, 14=Sun

Note: Wk 1 days will print on the top half of the time card. Wk 2 days will print on the bottom half of the time card.

Press **Enter** to set the current day of the week.

Note: as the day changes this value will change to reflect the current day of the week.

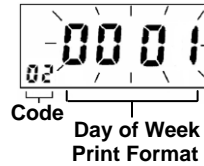


8.2 Day of Week Print Format (Language)

Press **Enter** to enter program code **02**.

Press **+** or **-** to edit the Day of Wk print format.

Press **Enter** to set the Day of Wk print format.



Code	00 00	00 01	00 02	00 03	00 04	00 05	00 06	00 07	00 08
Day Format	Day: 1-31	English	Spanish	French	German	Italian	Japanese	D1-D7 (D=day)	No Day

8.3 Minute System

Press **Enter** to enter program code **03**.

Press **+** or **-** to edit the Minute System format.

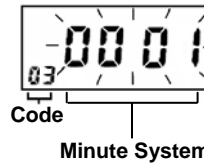
00 01 = 1/60 Hr (Minutes = Factory Default)

00 02 = 1/100th Hr

00 03 = 1/20th Hr

00 04 = 1/10th Hr

Press **Enter** to set the Minute System format.



Conversion Chart:

Minute	0	1	2	3	4	5	6	7	~	31	32	33	34	35	~	55	56	57	58	59
1/100th Hour	.00	.02	.03	.05	.07	.08	.10	.12	~	.52	.53	.55	.57	.58	~	.92	.93	.95	.97	.98
1/20th Hour	.0	.0	.0	.05	.05	.05	.10	.10	~	.50	.50	.55	.55	.55	~	.90	.90	.95	.95	.95
1/10th Hour	.0	.0	.0	.0	.0	.0	.1	.1	~	.5	.5	.5	.5	.5	~	.9	.9	.9	.9	.9

8.4 Setting DST Start (Month & Date)

Press **Enter** to enter program code **04**.

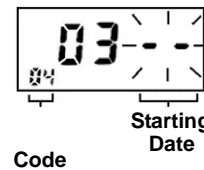
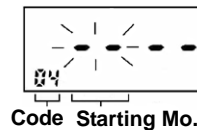
Press **+** or **-** to edit the DST Start Month.

Press **Enter** to set the DST Start Month.

Press **+** or **-** to edit the DST Start Date.

Press **Enter** set the DST Start Date.

Once the Start Date is set the day corresponding to the date will show at the top of the display.



8.5 Setting DST Start (Hour & Minute)

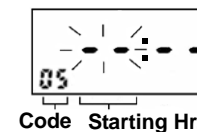
Press **Enter** to enter program code **05**.

Press **+** or **-** to edit the DST Start Hour.

Press **Enter** to set the DST Start Hour.

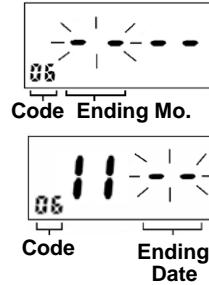
Press **+** or **-** to edit the DST Start Minute.

Press **Enter** to set the DST Start Minute.



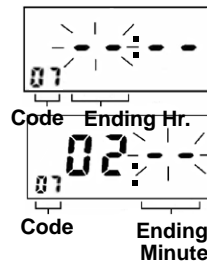
8.6 Setting DST End (Month & Date)

Press **Enter** to enter program code **06**.
Press **+** or **-** to edit the DST End Month.
Press **Enter** to set the DST End Month.
Press **+** or **-** to edit the DST End Date.
Press **Enter** to set the DST End Date.
Once the End Date is set the day corresponding to the date will show at the top of the display.



8.7 Setting DST End (Hour & Minute)

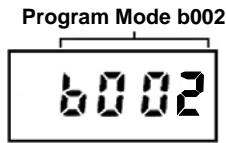
Press **Enter** to enter program code **07**.
Press **+** or **-** to edit the DST End Hour.
Press **Enter** to set the DST End Hour.
Press **+** or **-** to edit the DST End Minute.
Press **Enter** to set the DST End Minute.



Press **Mode** to advance to the next programming mode (B002). To exit programming mode slide the switch on the back of the clock to "Run".

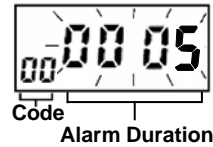
9. Setting Alarm Schedules (Mode b002)

You may set up to 24 Alarms (01 thru 24) to signal shift start/end, lunch start/end, OT start/end, etc.



Press **Enter** to enter program code **00** (Alarm Duration).

Press **+** or **-** to edit the Alarm Duration (0-60 sec, Default = 5 sec).



Press **Enter** to select the Alarm# (press & hold **Enter** to advance through Alarms 01-24. It takes approx. 4 sec. to cycle through each alarm).

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

Press **Enter** to set the Hour.

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

Press **Enter** to set the Minute.



Press **Clear** to set the alarm to go off every day of the week (by default the alarm is set for all week days & the weekend)

or

Press **-** to cancel selected (*flashing*) day (press "Enter" to continue advancing through each day of the week).

Press **+** to add a day that has been deleted.

Press **+** or **-** to edit the Alarm Type.

00 01 = Internal Alarm

00 02 = External Alarm

00 03 = Internal + External Alarm

Press **Enter** to set the Alarm Type.

Press **Mode** to advance to the next programming mode (B003). To exit programming mode slide the switch on the back of the clock to "Run".

Note: see Section #16 "Connecting External Signal Devices" for more information on how to connect bells and horns to the ATR120.

10. Setting the IN-OUT Schedule (Mode b003)

You can program up to 24 Column Changes (01-24) to set the print column for in/out times for shifts, breaks, lunch, overtime, etc.

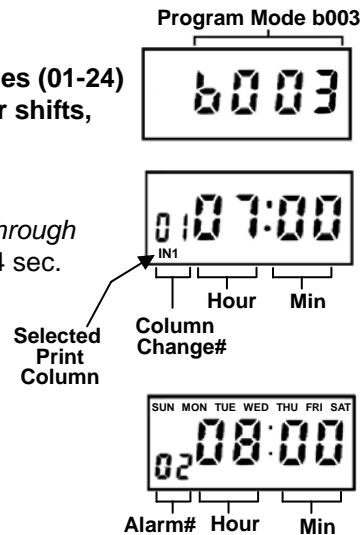
Press **Enter** to enter Column Change# 01.
(or press & hold **Enter** to slowly advance through Column Changes 01-24. It takes approx. 4 sec. to cycle through each alarm).

Press **+** or **-** to edit the Hour.

Press **Enter** to set the Hour.

Press **+** or **-** to edit the Minute.

Press **Enter** to set the Minute.



Press **Clear** to set the column change for every day of the week
(by default the column change is set for all week days & the weekend)
and advance to the next column change#.

or

Press **-** to cancel selected (flashing) day (press "Enter" to continue advancing through each day of the week).

Press **+** to add a day that has been deleted.

Press **+** or **-** to select the print column:

- 00 01 = Print Column 1
- 00 02 = Print Column 2
- 00 03 = Print Column 3
- 00 04 = Print Column 4
- 00 05 = Print Column 5
- 00 06 = Print Column 6

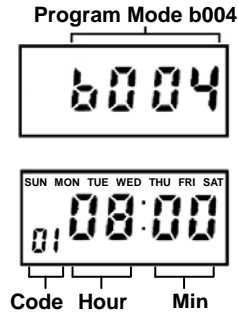
Press **Enter** to set the Print Column and go to the next Column change.

Press **Mode** to advance to the next programming mode (B004). To exit programming mode slide the switch on the back of the clock to "Run".

11. Setting 2-Color Printing (Mode b004)

You can program up to 24 Color Changes.

Example: the clock can be set to print punches in red if they fall outside normal working hours, ie, early or late punches.



Press **Enter** to enter Color Change# 01.

Press **+** or **-** to edit the Hour.

Press **Enter** to set the Hour.

Press **+** or **-** to edit the Minute.

Press **Enter** to set the Minute.

Press **Clear** to set the color change for every day of the week
(by default the color change is set for all week days & the weekend)
and advance to the next color change#.

or

Press **-** to cancel selected (flashing) day (press "Enter" to continue advancing through each day of the week).

Press **+** to add a day that has been deleted.

Note: all odd# color changes will set **Red** printing. All even# color changes will set **Black** printing.

To exit programming mode slide the switch on the back of the clock to "Run".

12. Master Resets

Press **+** & **Clear** & **Mode** (Keys 1, 5, 6) all together to reset the clock settings back to their original (factory) defaults. This will **not** reset the Clock Password or any Alarm, Column Shift Change or Color Change schedules. See Section 4 "Menu Trees - Quick Reference" to view the factory defaults for various settings.

Press **-** & **Clear** & **Mode** (Keys 2, 5, 6) all together to remove all Alarm, Column Shift Change or Color Change schedules.

Note: the "Reset" button on the back of the clock will re-start the clock (the equivalent of unplugging the clock and plugging it back in). This is useful if the clock program locks up. It will not change any of the clock settings back to factory defaults as long as the coin cell battery for memory backup is still good and switched on (the On/Off switch on the back of the clock).

13. Troubleshooting

Press the **RESET** button on the back of the clock to re-start the clock if becomes “locked up”.

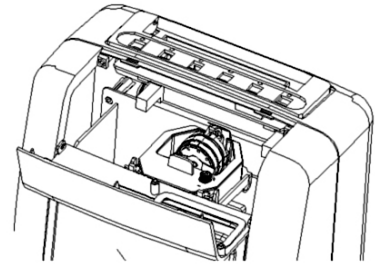
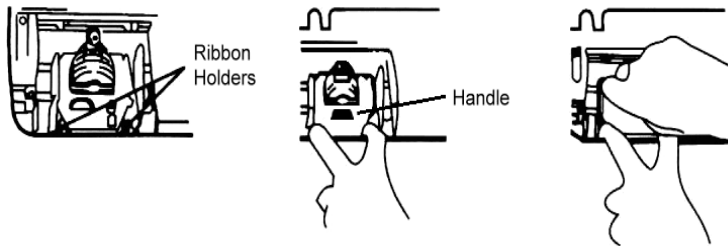
Trouble	Causes	Corrective Measures
The date is incorrect	Date set incorrectly	Set current date
The clock is slow/fast	<ol style="list-style-type: none"> 1. Time set incorrectly. 2. Power failure 	<ol style="list-style-type: none"> 1. Set it correctly. 2. Reset the machine.
The time clock does not accept time card	<ol style="list-style-type: none"> 1. Power failure 2. The time card is damaged 3. The power cord is disconnected. 4. Cards were inserted or pulled out by force. 5. Clock in “Program” mode 	<ol style="list-style-type: none"> 1. Wait until power supply is restored 2. Change a new time card 3. Insert the power plug firmly into the power outlet. 4. Press “Reset” or unplug & plug back in. 5. Move Program switch to “Norm”
The printing position is wrong	<ol style="list-style-type: none"> 1. Day Change set incorrectly. 2. Pay Period Type not set correctly for card type. 	<ol style="list-style-type: none"> 1. Set Day Change correctly. 2. Make sure to insert the card in the card slot and remove it properly.
Light printing	<ol style="list-style-type: none"> 1. The ribbon cartridge is not inserted correctly. 2. The ribbon is dried out. 3. The ribbon is stuck. 	<ol style="list-style-type: none"> 1. Insert cartridge correctly. 2. Change ribbon cartridge. 3. Rotate ribbon knob. Replace cartridge if ribbon doesn’t advance.
Ink Smudges	Ribbon inserted behind print shield.	Re-install cartridge with ribbon inserted between ribbon guide and print shield.
Settings Change	Low battery backup to clock memory.	Replace Coin Cell battery.
Forgotten Password		Contact Acroprint Customer Support at (800) 334-7190 for assistance in password recovery.

14. Replacing Ribbon Cartridge

1. Open the top cover and press button [PM Out 2]. The print head will move to Column 4 to make it easier to remove the ribbon cartridge.

Tip: if column shifts are programmed the print head could move after 3 sec. and could pinch your fingers. To avoid this move the print head to Col. 4 and slide the programming switch to "Prgm". This will prevent the print head from moving. When you are finished changing the ribbon, slide the programming switch back to "Run".

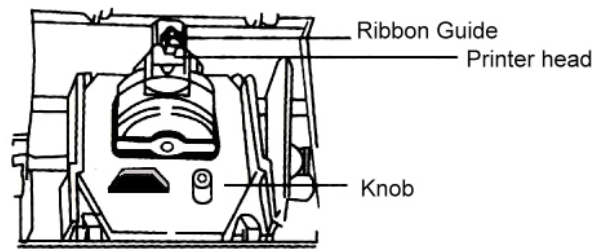
2. As shown in the figures below, pull the ribbon holders towards you to unlatch the ribbon cartridge. Use the handle on top of the ribbon cartridge to pull it up and out of the clock.



3. Blow any paper dust off the print head and from the inside of the clock using a can of compressed air. This could help prevent ribbon or card jams. Carefully insert a new cartridge, positioning the ribbon **between** the plastic ribbon guide and the stainless steel print shield. Push the cartridge down until it clicks into place. Turn the ribbon knob clockwise to remove any slack in the ribbon. Slide the program switch back to "Run".

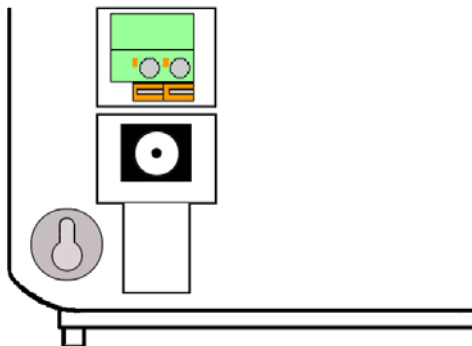
15. Cleaning the ATR120

Do not use cleaning products that contain alcohol or other strong chemicals as they could discolor or crack the clock housing. Use a soft damp cloth to remove dirt. Wipe dry. Use compressed air to blow paper dust off the print head and the inside of the clock. This should be done with at least every ribbon change. Cans of compressed air or "Dusters" can be found at any office supply or superstores.



16. Connecting External Signal Devices

The connections for an external signal device (bells, horns, buzzers, chimes, etc) are made via a 2-wire Green terminal block on the back of the clock above the power jack. Connections are made by pressing the orange wire release tabs below each wire hole, fully inserting the wire and releasing the clip. Gently pull on the wires to make sure they are firmly secured in the terminal block.



A relay is required in order to use a bell or horn. Please call Acroprint or your Dealer to order the relay (PN 01-0230-000).

When a signal is activated by the clock the internal contacts of the relay close and complete the circuit. These internal contacts are "dry" and supply no voltage. Voltage applied to these contacts must not exceed 30 volts. The relay then activates the 120v external signal device such as:

- 65-0103-000 "Grille Horn"
- 65-0104-000 "4-1/4" Bell"
- 65-0105-000 "8" Bell"

For more information about connecting an external signal device using a relay go to:

<http://support.acroprint.com>

Under "Time Clocks & Document Stamps" click on "ATR120 Time Clock" in the drop down menu and download 06-0346-000 "Connecting an External Signal Device".

17. Specifications

Power Supply	Input: 100v / 240v, 50/60 Hz, 0.6A Output: 13vDC, 1000mA
Dimensions	Approx: 9 x 8 x 5 (H x W x D) (230 x 205 x 128 mm)
Weight	3.35 Lbs (1.524 Kgs)
Usage Environment	32° - 104° F (0 – 40° C)
	10 - 60% Relative Humidity
Time Card Size	86 x 185 x 0.35 mm (W x L x Thk)
Circuit Board Battery	CR2032 3v Lithium Coin Cell
Ribbon Cartridge	Red / Black

18. Error Codes

If an Error code is displayed on the LCD contact your dealer or Acroprint for assistance:

E1E1--Wrong Position (Up & Down)

E2E2--Wrong Position (Left & Right)

E3E3--Internal Memory Error (usually indicates power failure)

E4E4--Wrong Password

19. Wall Mounting Instructions

The ATR120 can be placed on a table or desk and it can also be mounted to a wall. A mounting template is included with the documents for the ATR120. If you misplace the template you can download it at:

<http://support.acroprint.com>

Under "Time Clocks & Document Stamps" click on "ATR120" in the drop down menu.

Follow the instructions on the template to mount the clock.

Supplies, Parts & Accessories

Part#	Description
01-0230-000	24 Volt Switching Relay Kit
01-0212-000	ATR120 Electronic Time Recorder
01-0212-002	ATR120 Time Recorder w/Battery Backup
06-0314-002	ATR120 User Manual (available on web)
06-0413-000	Mounting Template (available on web)
09-9110-000	ATR121 Wkly/Bi-Wkly Time Card (pack of 250)
09-9113-000	ATR121 Monthly Time Card (pack of 250)
39-0127-002	ATR122r Replacement Ribbon
45-0180-000	Key Set, ES700/900/1000; ATR120
56-0137-000	13v DC 0.5A Switching Power Supply
58-0109-001	ATR120 Operational Battery Pack
64-0103-000	Grille Horn, 120vAC 50/60Hz
64-0104-000	4-1/4" Bell, 120vAC 50/60Hz
64-0105-000	8" Bell, 120vAC 50/60Hz
81-0120-000	ATR120R Expanding Card Rack

An updated list of accessories with pricing can be found on the web at:

www.acroprint.com

Acroprint® Limited Warranty

Should you have any questions concerning your warranty information or supplies, please contact the dealer or store where you purchased the equipment.

This product is guaranteed to the original purchaser for a period of two (2) years from original purchase date against defective materials and workmanship when used under normal operating conditions. The repair or replacement of any defective component or part and any necessary adjustments will be made free of charge provided that the machine is shipped prepaid to the factory service center shown below, securely packaged and shipped in the original shipping container. This warranty applies to Acroprint products purchased and retained in the U.S.A. The guarantee is not applicable if the device has been subject to misuse, abuse, negligence, accidents, power surges and lightning. The guarantee is not applicable if the serial number has been altered, defaced or removed or if the device has been tampered with or taken apart by anyone other than authorized service personnel.

Please return the warranty card on the following page to Acroprint to register your product. Or, if you would like to register online go to **www.acroprint.com**. For your reference, fill out the information below and keep it in a safe place.

Model Number **ATR120r**
Serial Number _____
Date Purchased _____
Purchased From _____
Purchase Location _____
Store Telephone Number _____

Acroprint Time Recorder
5640 Departure Drive
Raleigh, NC 27616-1841

Product Registration Card

Model No. _____ Serial No. _____

First Name _____ Last Name _____

Title _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Daytime Phone with Area Code _____

Purchased From _____ Purchase Date _____

So that we may serve you better, please indicate your primary business activity.

- | | |
|---|---|
| <input type="checkbox"/> (01) Manufacturing | <input type="checkbox"/> (04) Government |
| <input type="checkbox"/> (02) Wholesale | <input type="checkbox"/> (05) University / School |
| <input type="checkbox"/> (03) Retail | <input type="checkbox"/> (06) Other _____ |

Number of Employees Using Product

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> (11) 1 – 10 | <input type="checkbox"/> (14) 50 - 75 |
| <input type="checkbox"/> (12) 11 - 25 | <input type="checkbox"/> (15) 76 - 100 |
| <input type="checkbox"/> (13) 26 - 49 | <input type="checkbox"/> (16) 100+ |

Annual Sales in Dollars

- | | |
|---|---|
| <input type="checkbox"/> (21) Under \$100,000 | <input type="checkbox"/> (24) \$500,000 - \$1,000,000 |
| <input type="checkbox"/> (22) \$100,000 - \$250,000 | <input type="checkbox"/> (25) \$1 million - \$5 million |
| <input type="checkbox"/> (23) \$250,000 - \$500,000 | <input type="checkbox"/> (26) \$5 million and over |

Comments: _____
