

ACCESS CONTROL SOLUTION

Eternity 4
Eternity 5

Manual



TABLE OF CONTENTS

SECTION 1 GENERAL OVERVIEW	4
I. Foreword	4
About This Manual	4
Safety Warnings and Cautions	4
Design Change Disclaimer	4
Reproduction Disclaimer	4
Technical Support	4
II. Important information	4
Manufacture Default Code Setting:	4
LED and Audio Indicator:	4
Important Keys:	4
III. General Lock Spec	5
IV. Eternity IV Datasheet (Heavy Duty keypad Lock)	6
Hardware Spec	6
Functions	6
Ordering Information	6
Door Prep	7
Parts List	7
Eternity IV Installation Instruction	8
V. Eternity V Datasheet (Medium Duty keypad Lock)	9
Hardware Spec	9
Software Spec	9
Mortise Spec	9
Ordering Information:	9
Eternity-V-Installation	11
Eternity-V-Mortise-Installation	13
SECTION 2 ETERNITY SOFTWARE GUIDE	16
1. SOFTWARE SETUP	16
Operating System	16
Installing 1-Wire USB Driver First	16
Installing the iKeypad Software	16
Login	16
Change System Password	17
2. ACCESS CONTROL MANAGEMENT I	17
I. Lock Setup	17
New Lock Set Up	17
Edit An Existing Lock	18
II. User Setup	19
Onsite User Setting	19
➤ Add/Edit user information	19
➤ Assign Onsite user to lock	20
Copy Lock Setting	20
Remote User Code Setting	21
➤ Create remote Access Code	21
➤ Terminate a lost Access Code:	21
➤ One Time Service code	22
3. ACCESS CONTROL MANAGEMENT II	22
III. Time Setting	22
Time Shift Setting	22
Timed Operation Setting	22

Activation / Expiration Date Setting	23
Exception Date Setting.....	24
IV. Mission Management.....	24
Set Parameter Key.....	24
Set Time Key	25
Get Information Key	25
Lockout Key.....	26
One-Off key/One-Off Code	26
➤ One-Off Key	26
➤ One-Off Code.....	26
V. Audit Trial	27
VI. History	28
Lock Audit History	28
Access Code history.....	29
Operator Log.....	29
SECTION 3 NON-SOFTWARE GUIDE	29
I. General Information:.....	30
II. Manufacture Default Setting:	30
III. Steps to setup a new lock (please follow the order)	30
IV. Types to operate the lock:.....	30
V. Terms:.....	31
VI. Functions	31
Weekly Chart	33
• How to program schedule with an “user code”	33
4. ENDING TIME.....	34
SECTION 4 CASE STUDY	34
University Park Business Center, Denton, TX.....	34
SECTION 5 TROUBLE SHOOTING GUIDE	35
WARRANTY REGISTRATION FORM	36

Section 1 General Overview

I. Foreword

About This Manual

This manual is designed for users of Eternity 4 and Eternity 5. All installation, setup, operational information, procedures, screen captures, and other relevant materials are contained in this manual.

Safety Warnings and Cautions

When handling a printed circuit board (PCB), guard against possible static discharges by touching a grounded object BEFORE touching the board. Static shock could cost unexpected damage of the board.

Design Change Disclaimer

Due to design changes and product improvements, information in this manual is subject to change without notice. assumes no responsibility for any errors that may appear in this manual.

Reproduction Disclaimer

Neither this manual nor any part of it may be reproduced, photocopied, or electronically transmitted in any way without the written permission of .

Technical Support

When you experience any difficulty installing or operating the Eternity software, please contact your local distributor or at 1-866-241-9874.

II. Important information

Manufacture Default Code Setting:

1. Default Setting for Login User Name / Password is: dallas / ibutton
2. Operator Password: The default operator password is 00000000 (8 digit Zeros)
3. System Password: The default System password is 000000 (6 digit Zeros)

LED and Audio Indicator:

1. Program Mode: LED indicating GREEN, audio end with two beeps (Successful)
2. Program Mode: LED indicating Red, audio end with one beep (Fail)
3. Key Access Mode: LED indicating GREEN, audio end with two beeps (Valid Access)
4. Key Access Mode: LED indicating Red, audio end with one beep (Fail)
5. Unlock Mode: LED flashing GREEN, lock is in unlock mode
6. Lock Mode: LED flashing RED, lock is in lock mode

Important Keys:

1. DS1982/DS1990- User Key (Default key-fob color from : red, yellow, black, orange)
2. DS1994/DS1904- It contains an on board real time clock to reset the lock internal clock. (Default key-fob color from : Green)
3. DS1977- Program Key. (Default key-fob color from : Purple)
4. DS1996- Firmware Upgrade Key (Default key-fob color from : Blue)

III. General Lock Spec

This page shows the similar specifications of the Eternity 4 and Eternity 5.

Keypad: 12 all weather numeric keypad

Keypad Functions: Permanent codes, Temporary codes, one-time service codes

Power Supply: 4 standard AA batteries with a weatherized battery pack for all weather conditions

Power Supply Life Expectancy: 10,000 operations, low battery warning when system drops below 4.8 volts

Memory Retention: Flash memory never loses memory even without power

Programming / Communication Method: iButton key-fob, no annoying wires

Functions: Time zones for lock function (automatically unlock or lock), fully programmable exception dates (holidays), temporary dates, and time zones for iButton key-fobs.

Finishes: Stainless, or Brass.

Handles: Reversible Lever

Audit Trail: 4000-event audit trail.

iButton Users: 500

Temporary Codes: No limit

Permanent Codes: 300

One Time service code: 10

Anti-tamper: Red-warning light stays on for 60 seconds after 3 consecutive invalid code entries

Key Bypass: Standard on all units

Door Preparation: Standard ANSI A115 Series Prep, optional by adding additional 5/8" through-bolt holes to add stability to the lock and increase security.

Strike Plate: ANSI Standard 115.3. Square corner, 1-1/8 x 2-3/4 inch T strike with 1-1/4 lip-to-center dimension.

Latch: 2 3/4 inch backset standard (2 3/8 inch backset optional), solid brass with 1/2-inch throw 1-inch diameter bore is required.

Materials: Zinc Alloy

Temperature: 0°F-120°F (-18°C-50°C)

Exposure: All weather conditions

Accessibility Standard: Meets ADA standards Americans with disabilities act.

Lock Back Time: 1 – 25 seconds (default is 5 seconds)

Working Voltage: 4.8-6.4V

Low Battery Warning: 4.8V or lower

Door Thickness: 1 3/8" to 2"

Keyway: Schlage C 6

IV. Eternity IV Datasheet (Heavy Duty keypad Lock)

Hardware Spec

PARAMETER	DETAIL
Lock Weight	6 Lb
Working Current	<10 mA
Idle Current	5 μ A
Lock Back Time	5 (1 – 25) Seconds
Working Voltage	4.8-6.4V
Low Battery Warning	4.8V or lower
Power Source	4 AA Alkaline Batteries
Keypad	Weather Proof Keypad
Handle	Reversible Lever
Door Thickness	1 3/8" to 2"
Keyway	Schlage C 6
Packed Weight	
Packed Size	
CTN Weight	
CTN Size	



Functions

DESCRIPTION	SOFTWARE	NON-SOFTWARE
Audit Trail	Yes (3000 entries)	N/A
iButton Key Users	800 (Combine iButton and code)	300 (Combine iButton and code)
Keycode Users	See above	See above
Timed Operation	Yes	Yes
Auto Lock/Auto Unlock	16 time schedules	Fixed time schedule (7 days a week)
Passage Mode	16 time schedules	Single time schedule
Time Shift User	16 time schedules	Single time schedule
Remote Access	Yes	Yes
Storehouse/Classroom Mode	Yes	Yes
One Time Use	Yes	Yes
iButton User	Yes	Yes
Permanent Code User	Yes	Yes
Remote Code User	Yes	Yes
One-Touch Lock from Inside	Yes	Yes
Daylight Saving	Yes	Yes
Lock Out Function	Yes	Yes
User Key Assignment Method	Software + Programming Key	Keypad
Software Package	Yes	(Optional)

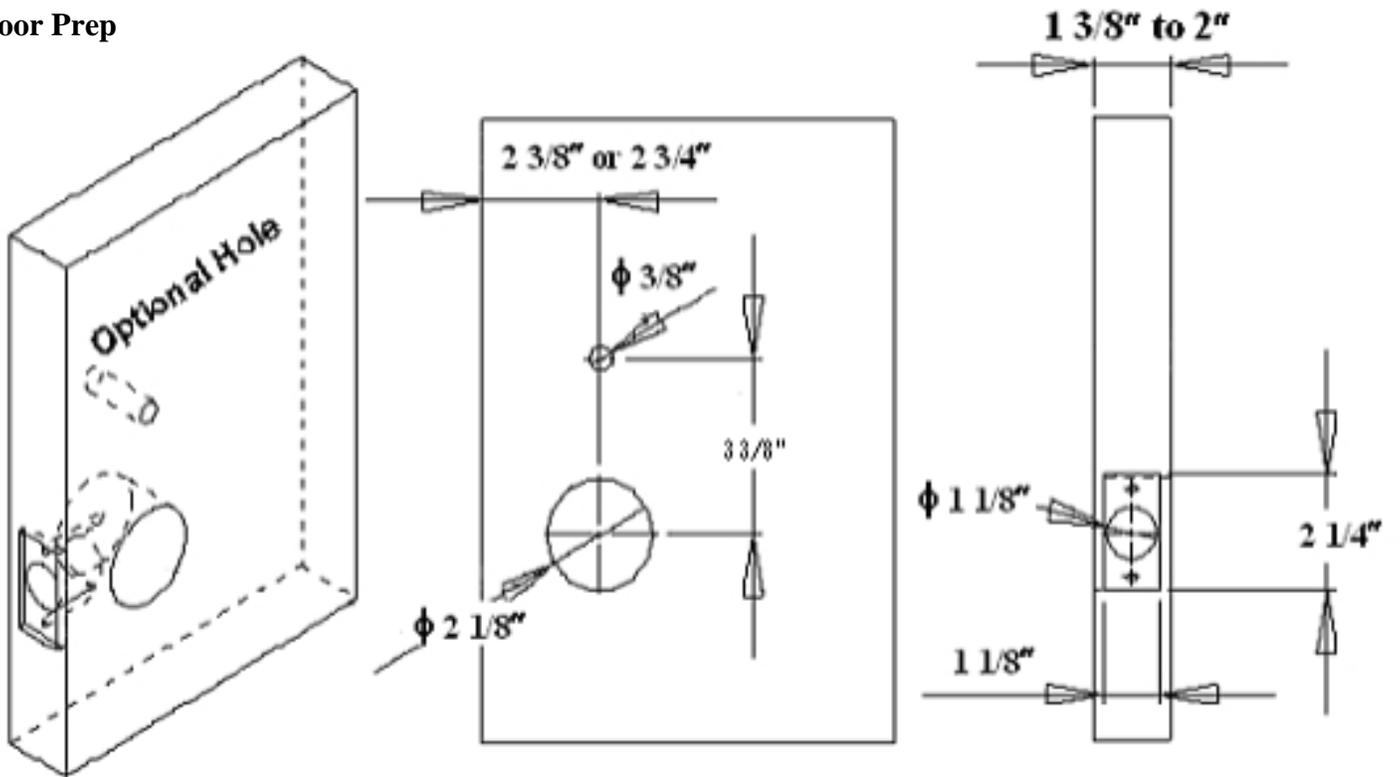
Ordering Information

PART	DESCRIPTION
E4IKSC01	E-IV TM + Keypad Satin Chrome Lockset SW Version
E4IKSC02	E-IV TM + Keypad Satin Chrome Lockset No SW Version
ECYLSC6M	Eternity Schlage C 6-Pin Master Key Cylinder
ACCESSORIES	DESCRIPTION
D1977K	DS1977 Programming Key
D1994K	DS1994 Internal Clock Key
D1990K	DS1990 iButton User Key
UIBPCR	iButton Reader (iButton PC Receptor)
USBPCA	USB PC Adapter
EternitySWCD	Eternity Lock Management Software CD

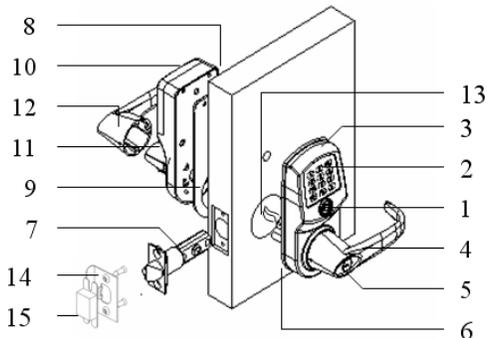
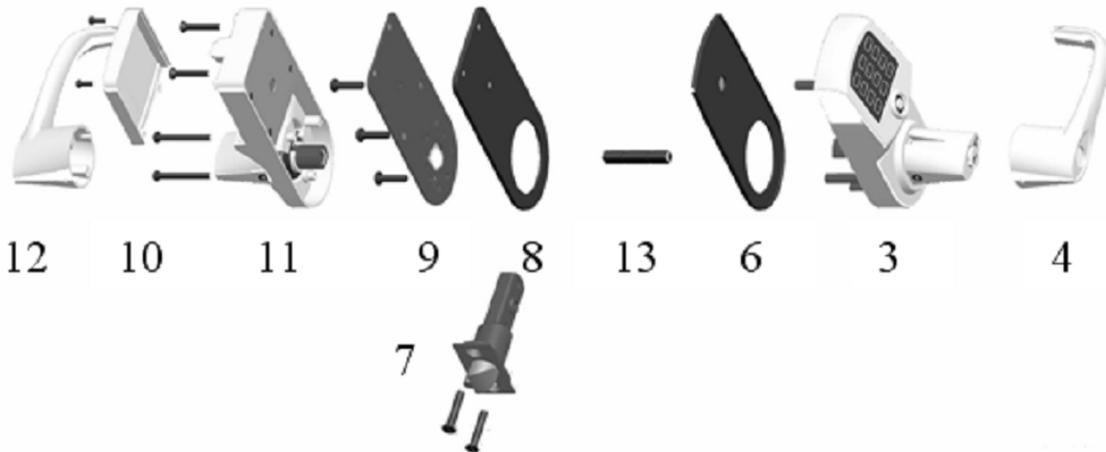
Pack List:

1. Front Handle
2. Back Handle
3. Front Lock
4. Back Lock
5. Accessory Box
 - Latch
 - Cylinder
 - Screws

Door Prep



Parts List



1	iButton Reader	9	Inside Mounting Plate
2	Keypad	10	Batteries Housing Cover
3	Outside Lock Housing	11	Inside Lock Housing
4	Outside Lever	12	Inside lever
5	Override Cylinder	13	Spindle
6	Outside Gasket	14	Strike Plate
7	Latch	15	Dust Boot
8	Inside Gasket		

Eternity IV Installation Instruction

Step 1. Install the latch

- Insert the latch into 1" hole on edge of the door.
- Secure the latch in place with two screws.

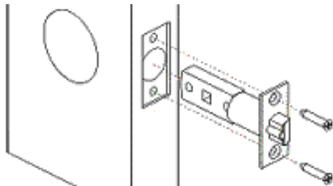


Fig. 1

Step 2. Install outside lock housing

- Place the outside gasket (if required) on back of the outside lock housing prior to the assembly; align the gasket along the edge of the lock housing.
- Insert the square spindle into the center hub and turn the spindle until it locks. Ensure that the **Dot on center hub is point to left**.

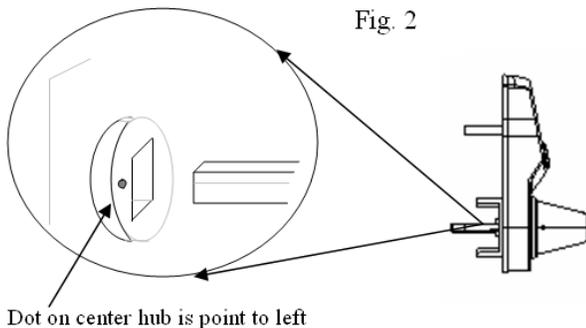


Fig. 2

- Place the outside lock housing against the door, feed the power plug through the 2 1/8 inch door hole.

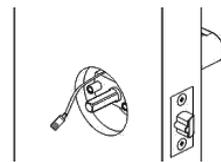


Fig. 3

Step 3. Install inside mounting plate

- Place the inside gasket (if required) on the mounting plate, and align the inside gasket with the position hole.
- Feed the power plug through the small hole on the mounting plate.
- Place the mounting plate against the door, and secure the mounting plate attach to outside lock housing with three screws.



Fig. 4

Step 4. Install inside lock housing

- Plug the power cable into the inside lock housing.
- Place inside lock housing on top of the mounting plate,
- Ensure the square spindle into inside lever hub. Secure the inside lock housing with two screws.

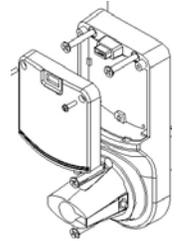


Fig. 5

Step 5. Install inside lever door handle.



Fig. 6

Step 6. Install outside lever door handle

- Ensure override shaft inside the cylinder housing is in vertical position (use flat screw driver to adjust the position when needed)

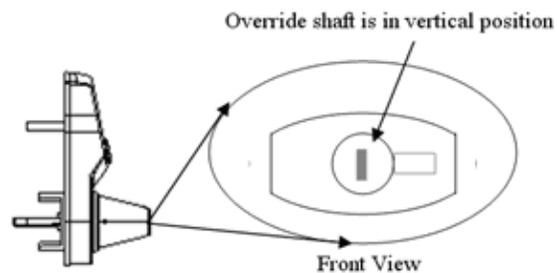


Fig. 7

- Place the key cylinder into the outside lever door handle, insert the manual key to the cylinder and turn clockwise 90 degrees.
- Guide the cylinder into the cylinder housing and snap the lever door handle into the lever catch pin
- Turn the manual key counter clockwise 90 degree and pull the key out

Step 7. Install Strike plate

- Inset the dust boot into the doorframe.
- Place the strike plate over the dust boot.
- Secure the plate in place with two screws.

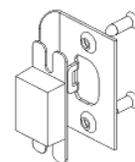


Fig. 8

V. Eternity V Datasheet (Medium Duty keypad Lock)

Hardware Spec

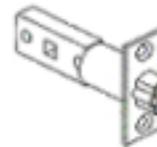
PARAMETER	DETAIL
Weight (Lock only)	4.2 Lbs
Working Current	250 mA
Idle Current	15 μ A
Motor Running Time	0.4 Second
Working Voltage	4.2-6.4V
Low Battery Warning	4.2V
Power Source	4 AA Alkaline Battery
Keypad	Weather Proof Keypad
Handle	Non handed
Door Thickness	1 3/8" to 2"
Keyway	SC 6 Pin
Dimension (1ps)	10 x 8 x 4 1/2"
Dimension (8pcs/box)	16 x 10 1/2 x 19"
Package Weight (1)	5 Lbs
Weight (8pcs/Box)	40 Lbs



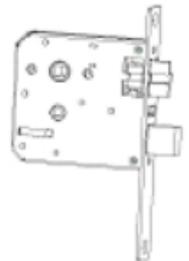
Software Spec

Description	Software	Non-software
Audit Trail	Yes. 4,000	No
Users	800	299
Timed Operation	Yes	Yes
Remote Access	Yes	Yes
Storehouse/Classroom Mode	Yes	Yes
One Time User	Yes	Yes
Software Package	Yes	No
Lock from Inside	No	No
Set Up Method	Software	Keypad
Daylight Saving	Yes	Yes
Lock Out Function	Yes	Yes

Regular Latch



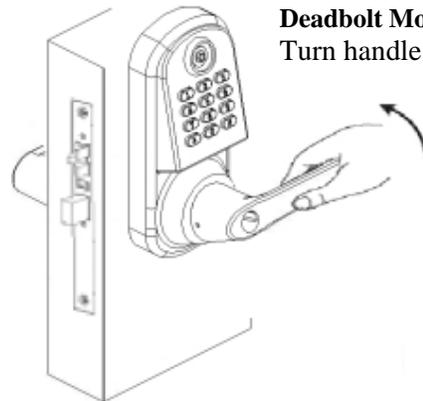
Deadbolt



Mortise Spec

3/4" throw heavy duty deadbolt with anti-saw hardened pins
Rustproof heavy duty 2 3/8" backset lock case
Individual spring to prevent lever sag, easily reversible
Forged brass lever handles exceed requirements of ADA
Auxiliary latch bolt
Heavy Duty 1/2" latch bolt with anti-friction latch, easily reversible
Interconnected Deadbolt Mortise:
While unlocked turn the handle up to enable (lock) the deadbolt, or turn the handle down to disable (unlock) the deadbolt

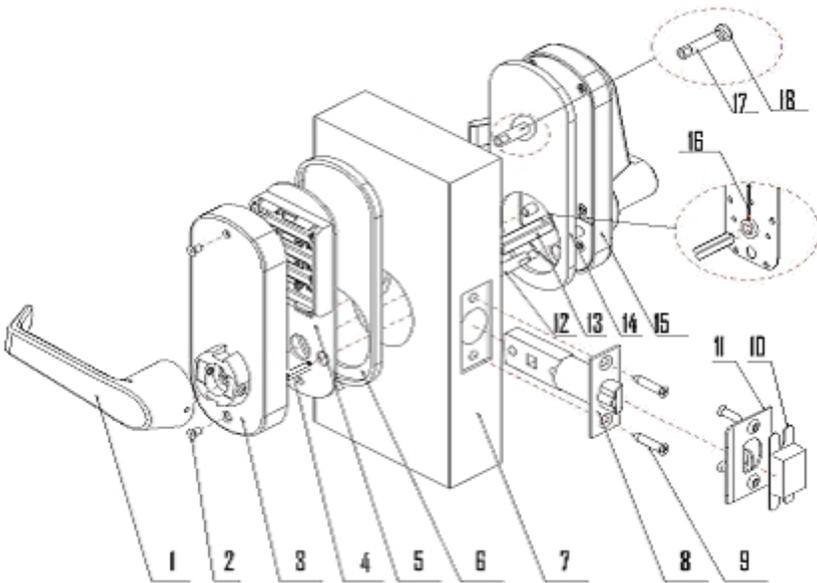
**Interconnected
Deadbolt Mortise**
Turn handle up to lock



Ordering Information:

PART	DESCRIPTION	PART	DESCRIPTION
E5-SW	E5 Software Lock	D-1977	Programming Key
E5-NS	E5 Non-Software Lock	D-1994/1904	Clock Key
D-MC	Master Cylinder	D-1990	User Key
USBPCA/UIBPCR	Programming Encoder	IKeypad	Software CD

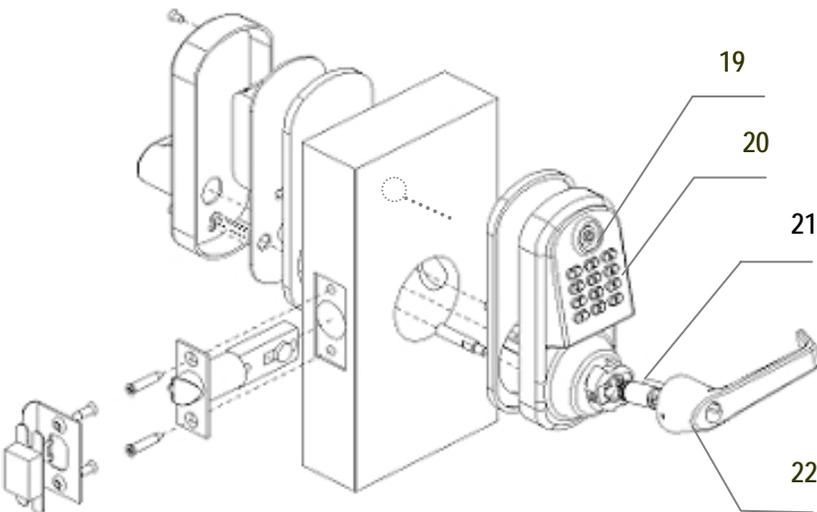
Back View Installation



Major Lock Parts

1. Rear Handle
2. Rear Lock housing Screws
3. Rear Housing
4. Battery Plate Screw
5. Battery Plate
6. Rear Rubber Gasket
7. Door
8. Latch
9. Latch Screws
10. Dust Boot
11. Strike Plate
12. Front Lock Fastener Post
13. Square Shaft
14. Front Rubber Gasket
15. Front Lock Housing
16. Position Pin
17. Upper Fastener Post (optional)
18. Attachment Screw (optional)
19. iButton Reader
20. Keypad
21. Override Key Cylinder
22. Front Handle

Front View Installation



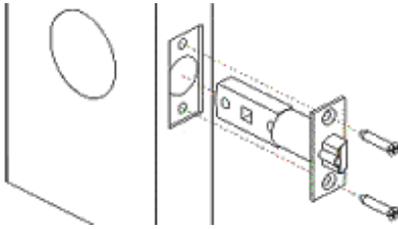
Accessory Parts List

1. Battery Plate Screw (3)
2. Back Cover Screw (2)
3. Screws (4)
4. Square Shaft (1)
5. Position Pin (1)
6. Fastener Extension (2)
7. Upper Fastener Extension
8. Latch (1)
9. Strike Plate (1)
10. Dust Boot (1)
11. Override Key (2)
12. SC4 Cylinder (1)
13. iButton key (Optional)

Eternity-V-Installation

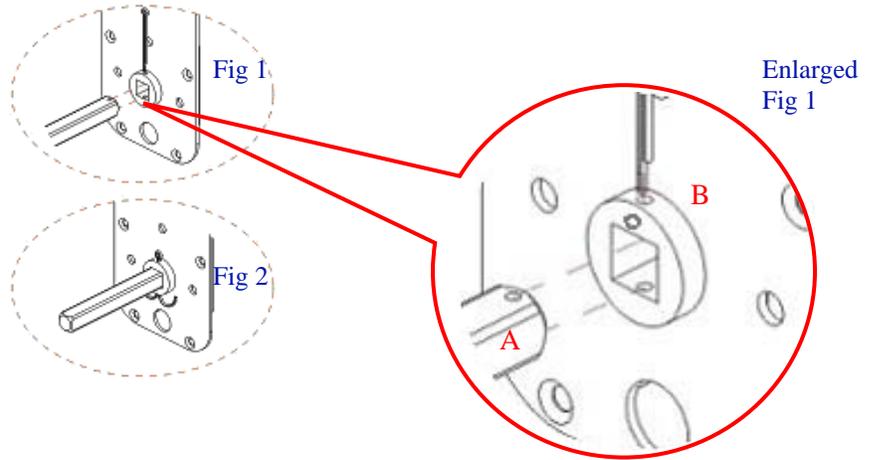
Step 1

Insert the latch into door hole. Secure the latch with two screws.



Step 2

Insert the square shaft (A) into the center hub (B) (Fig 1). Insert the position pin into the hole on the center hub to secure the square shaft. Bend the end of position pin around the center hub to secure the pin in place. (Fig 2)



Step 3

Screw in and tighten the two fastener extensions (C) into the front lock fastener posts located on both side of the center hub. Attach and tighten the upper fastener extension (D) if needed (Fig 3). Note: The upper fastener extension (D) is optional.

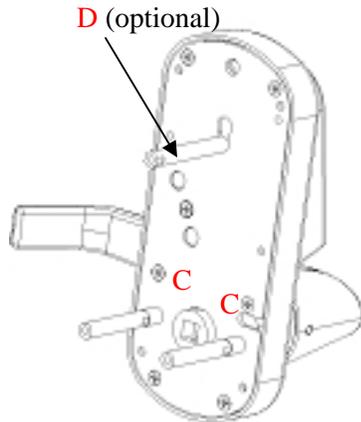


Fig 3

Step 4

Place the front lock housing onto the door, with the rubber gasket (E) between the door and lock housing. Feed the power plug (F) through the hole (Fig 4).

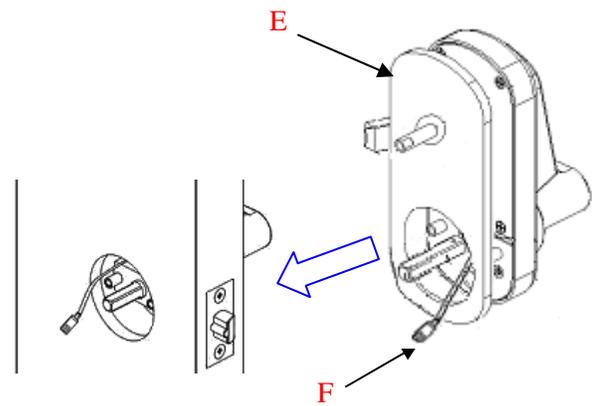


Fig 4

Step 5

Attach the battery plate onto the door, with the rubber gasket between the door and battery plate. Make sure the power plug go through the hole on the plate. Secure the battery plate to front lock fastener post with 2 screws. Fasten upper fastener post (Optional) (Fig 5)



Fig 5

Step 6

Install batteries, and plug in the power cable. Secure the back lock housing onto the battery plate. Fasten with 2 screws. Press both catch pin in and snap the rear handle into drive shift (Fig 6)

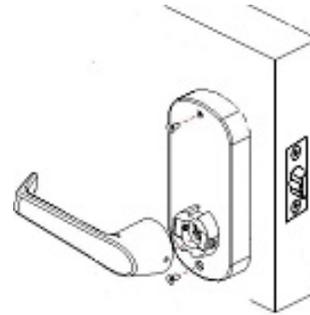


Fig 6

Step 7

Place the override cylinder into front handle housing, insert override key through the hole into cylinder. Turn the override key 90° clockwise. Press both catch pin in and snap the front handle into drive shift. Turn override key 90° counter clockwise and pull the key out. (Fig 7)

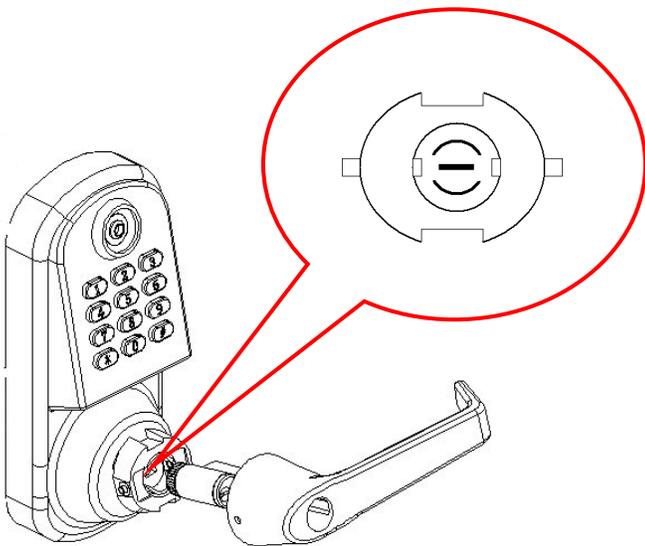


Fig 7

Step 8

Put strike box in doorframe, and then strike plate over it. (Fig 8)

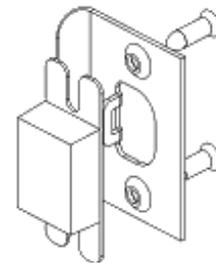
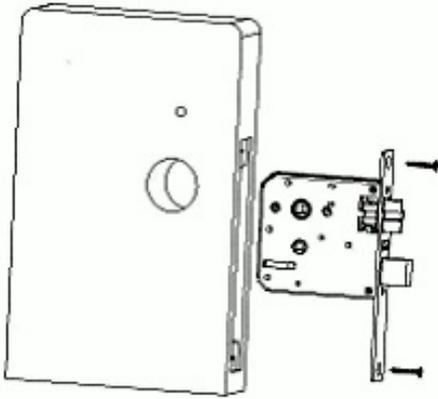


Fig 8

Eternity-V-Mortise-Installation

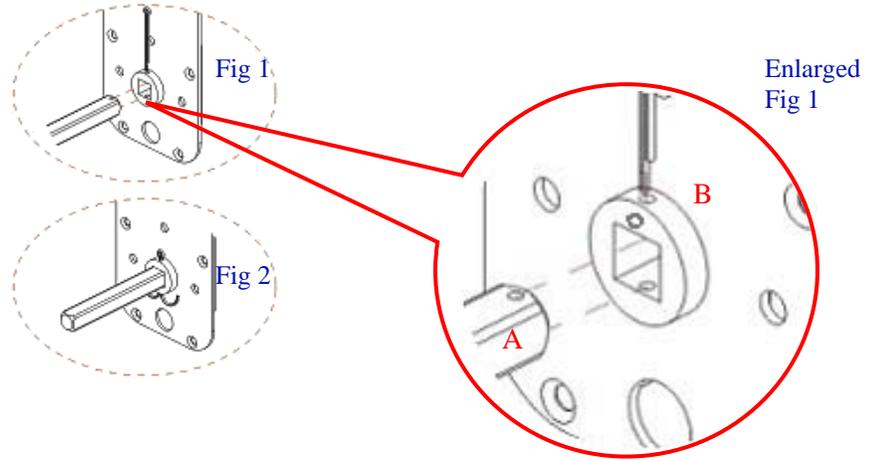
Step 1

Insert the lock case into mortise pocket. Secure the lock case with two screws.



Step 2

Insert the square shaft (A) into the center hub (B). (Fig 1)
Insert the position pin into the hole on the center hub to secure the square shaft. Bend the end of position pin around the center hub to secure the pin in place. (Fig 2)



Step 3

Screw in and tighten the two fastener extensions (C) into the front lock fastener posts, located on both side of the center hub. Attach and tighten the upper fastener extension (D) (Fig 3) Note: The upper fastener extension (D) is optional.

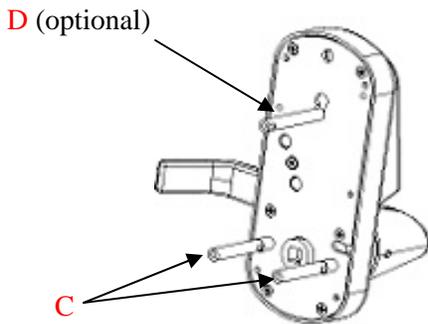


Fig 3

Step 4

Place the front lock housing onto the door, with the rubber gasket (E) between the door and lock housing. Feed the power plug (F) through the hole (Fig 4).

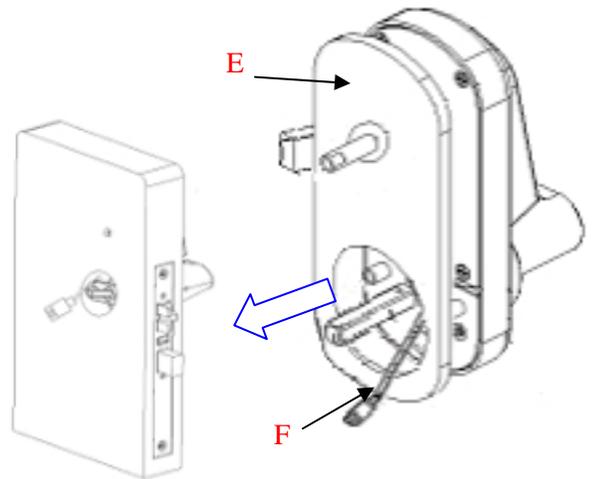


Fig 4

Step 5

Attach the battery plate onto the door, with the rubber gasket between the door and battery plate. Make sure the power plug go through the hole on the plate. Secure the battery plate with 3 screws; fasten to front lock fastener extension post and upper fastener post (Fig 5) Note: upper fastener post is optional.



Fig 5

Step 6

Install batteries, and plug in the power cable. Secure the back lock housing onto the battery plate. Fasten with 2 screws. Press both catch pin in and snap the rear handle into drive shift (Fig 6)

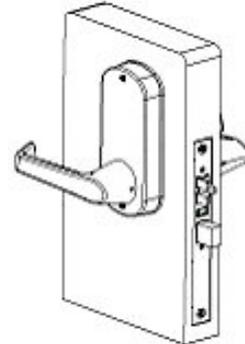


Fig 6

Step 7

Place the override cylinder into front handle housing, insert override key through the hole into cylinder. Turn the override key 90° clockwise. Press both catch pin in and snap the front handle into drive shift. Turn override key 90° counter clockwise and pull the key out. (Fig 7)

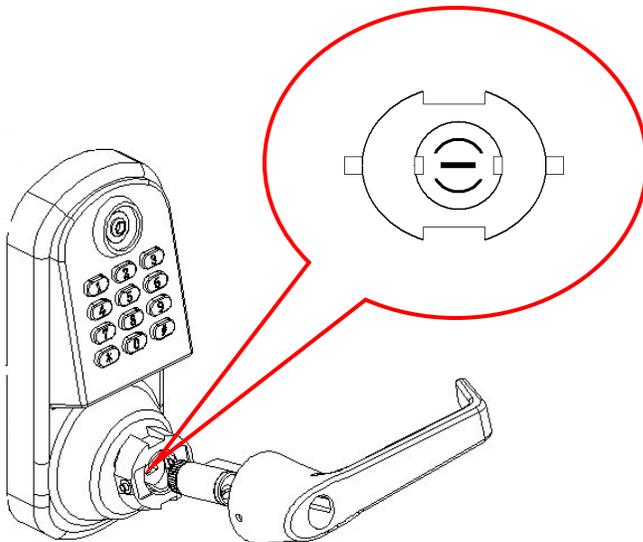


Fig 7

Step 8

Install the dust boot with strike plate onto it. (Fig 8)

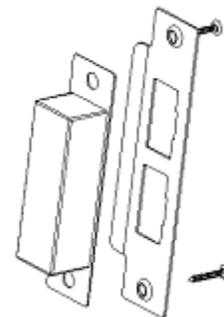
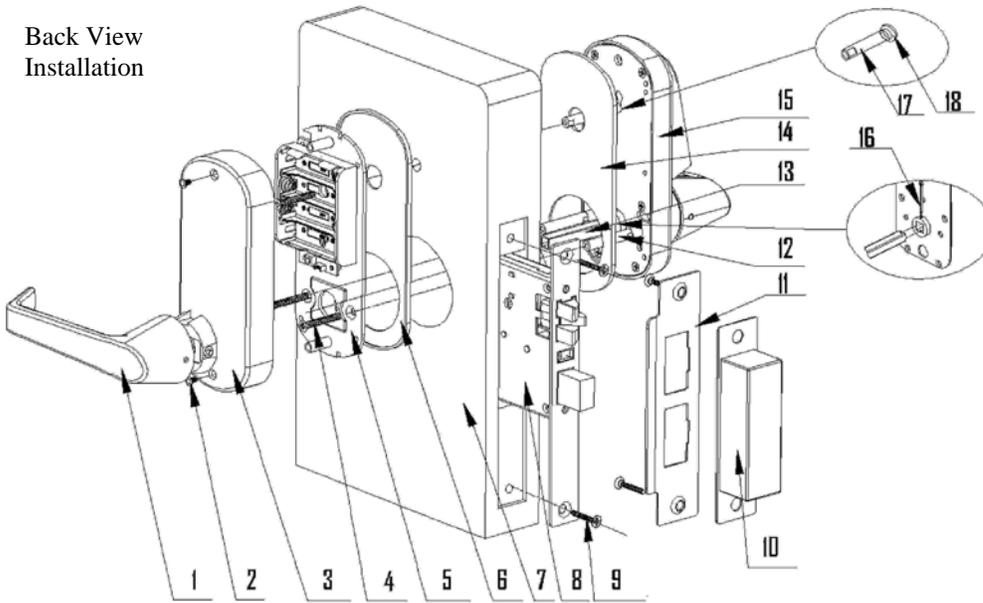


Fig 8

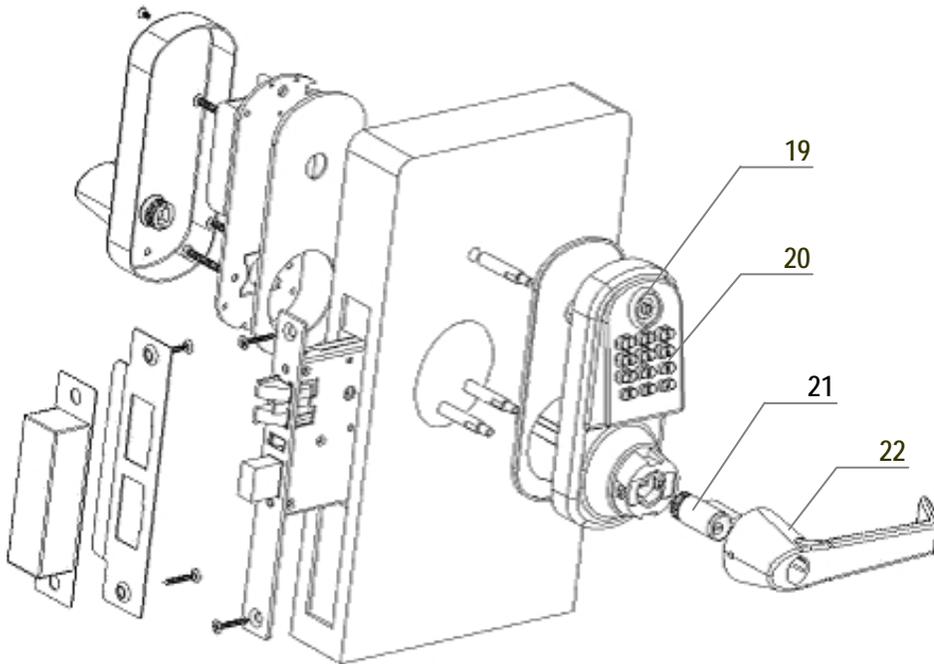
Back View Installation



Major Lock Parts

1. Rear Handle
2. Rear Lock housing Screws
3. Rear Housing
4. Battery Plate Screw
5. Battery Plate
6. Rear Rubber Gasket
7. Door
8. Lock case (Mortise)
9. Latch Screws
10. Dust Boot
11. Strike Plate
12. Front Lock Fastener Post
13. Square Shaft
14. Front Rubber Gasket
15. Front Lock Housing
16. Position Pin
17. Upper Fastener Post (optional)
18. Attachment Screw (optional)
19. iButton Reader
20. Keypad
21. Override Key Cylinder
22. Front Handle

Front View Installation



Accessory Parts List

1. Battery Plate Screw (3)
2. Back Cover Screw (2)
3. Screws (4)
4. Square Shaft (1)
5. Position Pin (1)
6. Fastener Extension (2)
7. Upper Fastener Extension
8. Mortise (1)
9. Strike Plate (1)
10. Dust Boot (1)
11. Override Key (2)
12. SC4 Cylinder (1)
13. Allan Wrench (1) (Optional)
14. Allan Screws (2) (Optional)
15. iButton key (Optional)

Section 2 Eternity Software Guide

1. Software Setup

The Eternity Software works the same for both Eternity 4 and Eternity 5.

Operating System

Eternity software is compatible with Microsoft Windows 98/2000/XP/Vista. All software must be installed using Windows administrator account, but all level Windows users can use the program. Failure to install the applications may result in error messages and an incomplete installation. For Vista users, you may need to run the application each time as an administrator.

Installing 1-Wire USB Driver First

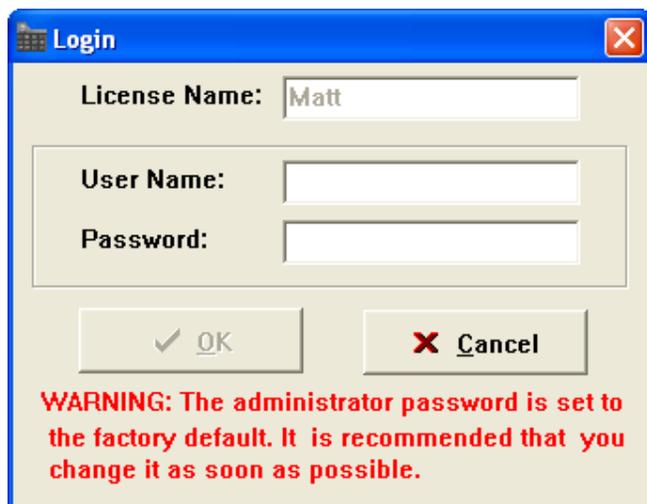


1. Insert installation CD. Note: On most computers, the Autorun program should launch automatically. If it does not, select *Start/Run*, browse to CD-ROM drive, select the *Autorun file*.
2. Select *1-Wire USB Driver Installation*, the Setup Wizard will guide you through the steps.
3. The *License Agreement* screen displays.
4. Select *I Agree*, and then *Install to start installation*.
5. Select *Finish*. The 1-Wire USB Driver Installation is complete.
6. Plug the 1-Wire USB device into the usb port on your computer

Installing the iKeypad Software

1. Select Eternity Software Installation. The Auto installer will guide you through the steps and create the shortcut – “Eternity4-ikpad.exe” on your desktop.
2. Select *Next* until the installation finishes.

Login

The screenshot shows a Windows-style dialog box titled "Login". It has a blue title bar with a close button (X) in the top right corner. The dialog contains three input fields: "License Name:" with the text "Matt" entered, "User Name:" which is empty, and "Password:" which is empty. Below the input fields are two buttons: "OK" with a checkmark icon and "Cancel" with an X icon. At the bottom of the dialog, there is a red warning message: "WARNING: The administrator password is set to the factory default. It is recommended that you change it as soon as possible."

License Name: Input the name of your company

User Name: **dallas**

Password: **ibutton**

Default User Name and Password can be modified but can't be deleted.

Change System Password

The default system password is 000000(6 Zeros). It is mandatory to change and remember the facility system password when the user is ready to use this software. It is highly recommended that the system password need to be changed from the default setting for security purpose.

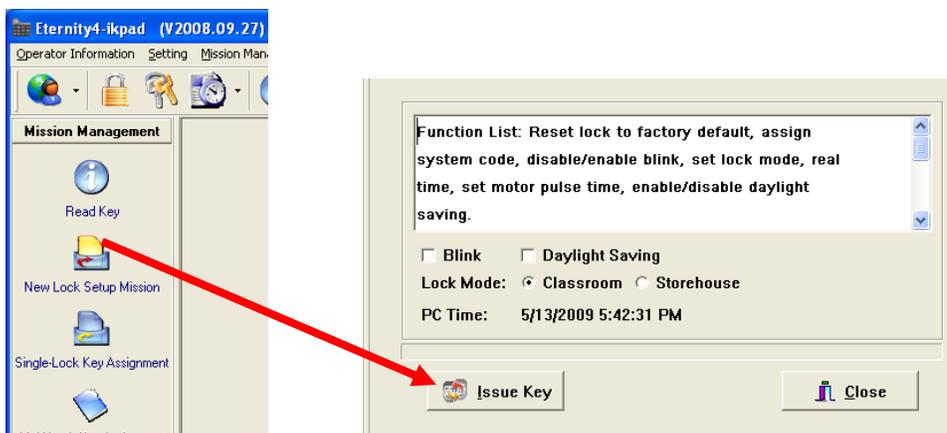


2. Access Control Management I

I. Lock Setup

New Lock Set Up

Click New Lock Setup Mission button from Mission Management Tab.

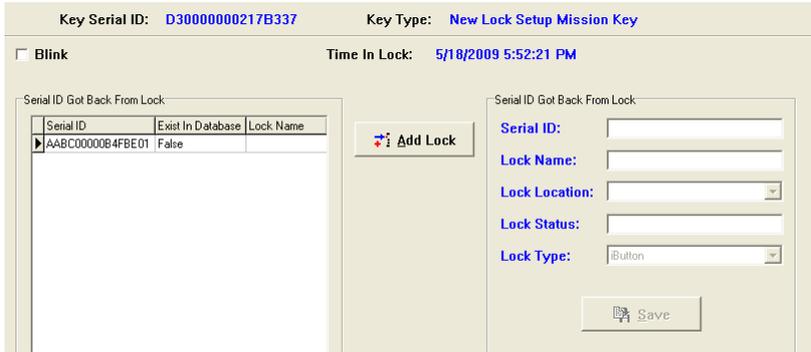


This mission will accomplish:

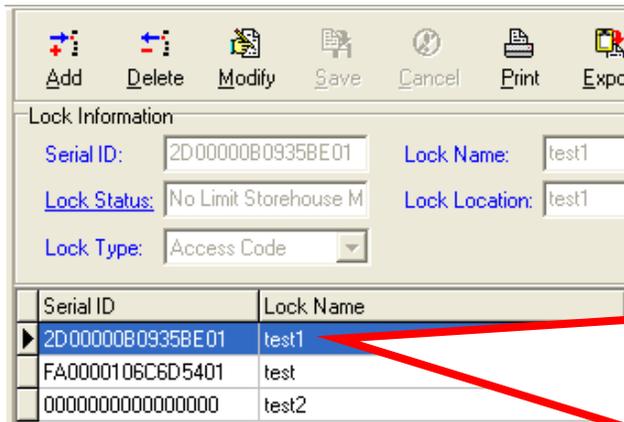
- ✓ Initialize the lock back to the manufacture default setting.
- ✓ Sets the system password, and real time to the lock.
- ✓ Set Daylight Saving enable or disable
- ✓ Set Lock Mode to normal open or normal close
- ✓ Set LED Blinking or idle

Steps to set up a new lock mission

- ✓ Snap the program key (DS1977) onto the USB blue dot receptor, login to the software and click on the New Lock Setup icon, and click issue key. Click ok to clear the pop up warning message box.
- ✓ Now take the program key to the lock, hold the reset button on the lock until there are two beeps and a solid green light; while the led is solid green, touch the program key to the iButton reader on the lock, and there will be two beeps to show that it worked. The lock information will now be on the program key.
- ✓ Snap the program key back onto the USB blue dot receptor, and click the “Read Key” icon. New lock id number will appear in the retrieve window. Now click the Add Lock icon. (If the lock already exists in the system, the “exist in database” will show “True”, and you can’t add the same lock to the system).
- ✓ Type in a lock name, location, status, and lock type, then click the save button.



- Lock Setting is an alternative way to add existing locks to the system. We recommend users keep the lock ID in file after the new lock setup so that you can manually input lock profile into the system when needed.

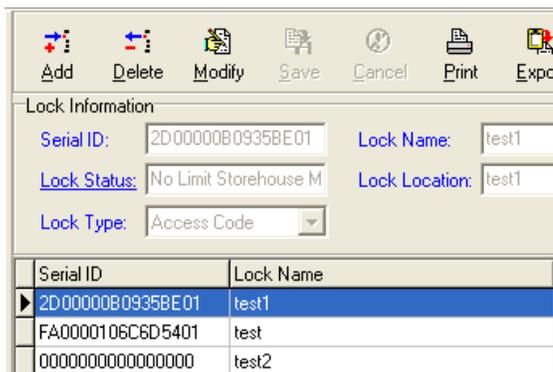


In this screen the upper window shows the lock list and the bottom window shows the valid key list for the selected lock.

- Serial ID: The Serial ID can be found from the manufacture package. Serial ID can be also obtained by using the New Lock Setup mission.

Lock status: By manufacture default, the lock status is “No Limit Storeroom Mode.” To change the lock status, Click “Modify”, and then click on underlined “Lock Status”, Time Operation Setting screen will pop up. Highlight the group number, click “Select” button.

Edit An Existing Lock



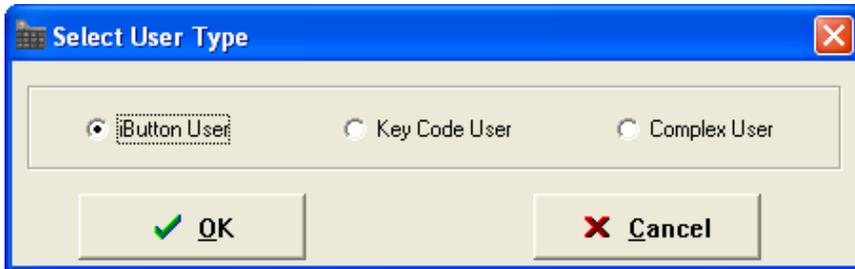
Select Lock from lock list, click “Modify” button.

II. User Setup

Onsite User Setting

➤ Add/Edit user information

To add/edit iButton / key code user, click “Add” button in the key setting menu, and following screen will pop up:



To add iButton user, click ok and snap a user iButton key into the encoder. Click on the empty field of “Serial ID”, the iButton key ID will be detected by the system and automatically entered. If the user key already exists in the system, the software will pop up a warning. No duplicate keys are allowed in one system.

To add key code user, check the “Key Code User” and click ok. Type in user code under Key Code field. Enter the User profile as follows:

- **First name:** Input the first name of the key owner.
- **Last name:** Input the last name of the key owner.
- **Status:** Active or Inactive (reserve for future use) User. We suggest not deleting any existing user for security reason. User can change the key status from Active to Inactive for a lost key or employee that left.

*First Name	*Last Name	*User Type	*Serial ID	*Key Code	*Status
11	11	iButton	2D00000B0935BE01		Active
22	22	KeyCode		123456	Active
33	33	iButton	310000021131FA01		Active
44	44	KeyCode			Active
66	66	iButton	D400000B0C8F4501		Active

- **Department:** User can either select the pre-input Department name from the pull down list, or input a new name in the field. The new name will be saved to the Department list once the data saved.
- **Title, address:** Can be entered as the key owner profile; photo of the owner can be uploaded to the program. (These are optional information fields)

After input all the users, click “Save” button and all user keys/codes will be stored.

➤ **Assign Onsite user to lock**

➤ Single-lock key Assignment Mission:

This mission is to assign iButton keys and user codes to one lock.

Lock Name: Lock Location:

Query By

First Name Department

Last Name Status

Selected Key List

	First Name	Last Name	Time Shift	Activation From	Expiration To	Exceptional Data	Selected	User Type
▶	11	11	No Limit	6/1/2006	9/1/2006		<input checked="" type="checkbox"/>	iButton
	22	22	No Limit	6/1/2006	9/1/2006		<input checked="" type="checkbox"/>	KeyCode
	33	33	Time Shift 5	6/1/2006	9/1/2006		<input checked="" type="checkbox"/>	iButton
	44	44	Time Shift 6	6/1/2006	9/1/2006		<input checked="" type="checkbox"/>	iButton
	66	66	Time Shift 3	6/1/2006	9/1/2006		<input checked="" type="checkbox"/>	iButton

- Select lock from lock list
- Change the time shift if needed
- Click to change the ‘Selected’ Column for the assigned users to the lock
- Snap in programming key
- Click “Issue Key”
- Complete the mission by touching the programming key to the lock reader, wait till you hear a double beep.

✓ **Multiple Lock Assignment**

This mission is to assign key list to multiple locks. Up to 25 locks can be assigned to each programming key.

Copy Lock Setting

This is a very useful tool when multiple locks have identical setting such as key list and/or timetable. After enroll all the locks and users into the system, Set timetable and assign keys/codes to one lock, then use this lock as model lock.

Select Model Lock: <-Click Here Same Key List Same Time Table

Select Locks

	Serial ID	Lock Name	Lock Location	Selected
▶	2D00000B09358F0	test1	test1	<input type="checkbox"/>
	FA0000106C605401	test	test	<input type="checkbox"/>
	0000000000000000	test2	test2	<input type="checkbox"/>

Step1: Select Model Lock from lock list

Step2: Select “Same Key List” or/and “Same Time Table” to be copied

Step3: Select the lock from the list

Double click on the field of “Select Model Lock”, and select the lock from the pop up screen. Check the “Selected” boxes and issue the program key. Complete the mission by touching the programming key to each selected lock reader, wait till hear a double beep.

Remote User Code Setting

➤ Create remote Access Code

Click on the “Remote Code” icon, the following screen will show:

Create Code | Delete Code

Select

Lock Name: test0 Code Type: Guest Temporary Code

Guest First Name: Guest Last Name:

Start Date: End Date:

May, 2009 May, 2009

Today: 5/20/2009 Today: 5/20/2009

12:00:00 AM 12:00:00 AM

Result

Lock Name: Access Code:

Guest First Name: Guest Last Name:

Start Date: End Date:

Date Created: Created By:

Access Code Version: Create Code Print

- ✓ Click on Lock Name field, the list of existing locks window will pop up, selects the lock from the list.
- ✓ Fill in the Guest First, and last name.
- ✓ Select the starting date and ending date you want the temporary codes to have access to the lock. You can select pre defined check in/out time from the list (up to 4 set of check in/out time)
- ✓ Click on the “create code” icon. The 10 digits numerical Access Code will be generated by the software. If the remote code duration time is more than 30 days, then the access code will be 12 digits.
- ✓ Enter the Access code followed by the # key to unlock the door.
Up to 4 Access Code can be created on each time period.

Here are the steps to set a sub-access code (only one allowed per access code)

- ✓ Press the “*” key till a solid green light appears on the iButton reader.
- ✓ Enter the Access code followed by the # key on the lock keypad. The green light will be flashing.
- ✓ While the light is flashing, punch in a desired code (1 to 6 digits) followed by the “#” key.
- ✓ Now both the access code and sub-access code will open the lock.

➤ Terminate a lost Access Code:

Guest lost the access code, or access code been released to un-authorized party. Going to the lock is required to delete an access code. Below are the detailed steps for deleting an access code.

- ✓ Click on the “Remote Code” icon. Select the “Delete Code” tab. Input the correct information or click on “Query” to see the previous access codes and select one or more to delete.
- ✓ Snap in the programming key and click “Issue Key”
- ✓ Touch the programming key to the lock reader until you hear two beeps. The access and sub-access code are now deleted.

➤ Terminate a lost Access Code Remotely (without software):

- ✓ * 071502 # {access code} # {access code} #
- ✓ Example: To delete the remote code 123456789012, do the following: * 071502 # 123456789012 # 123456789012 #

➤ **One Time Service code**

Up to 16 one-time service codes can be generated during the same time window.

Note: the access codes and service codes are accurate to the hour. Setting an ending time of 3:30 will prevent the code from working any time after 3:00 on that date.

3. Access control Management II

III. Time Setting

Time shift, activation/expiration, and exception date settings can be applied to keys by doing a key assignment and selecting the desired settings.

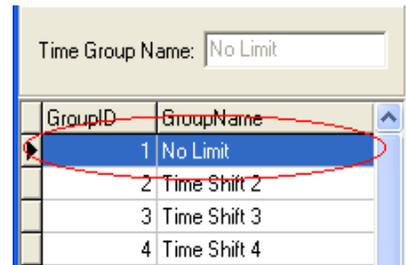
Time Shift Setting

This function is used to set the restriction time zones for user prevents unauthorized or unwanted personnel from entering the off-hours. The beginning time and ending time of each day can user group’s permission. There are 16 Time Shift Groups in total settings in each group. The first group is No Limit. This is a each new key and it cannot be modified.

To add or modify each time zone in a time group: Simply select from the left side window, and click on Add or Modify or Delete settings in the right side window.

Here is the example for Time Shift Group 2

This company wants to set the Group 2 Shift to access from Monday to Friday 8:00am to 7:00pm, and no access on Saturday and Sunday.



keys, which facility during be added based on and up to 7 default setting for the group number button to edit the

Begin Time: 8:00:00 AM End Time: 7:00:00 PM Date Of Week: Friday

[Tip: maximum 7 groups per each time shift]

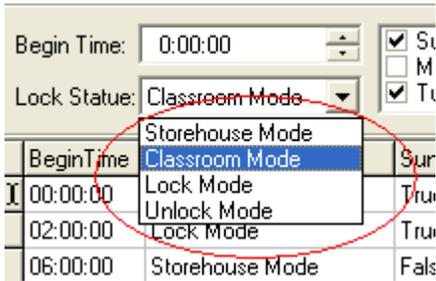
Begin Time	End Time	Day Of Week
8:00:00 AM	7:00:00 PM	Monday
8:00:00 AM	7:00:00 PM	Tuesday
8:00:00 AM	7:00:00 PM	Wednesday
8:00:00 AM	7:00:00 PM	Thursday
▶ 8:00:00 AM	7:00:00 PM	Friday

Once the setting is done, click the save button to save the changes.

Timed Operation Setting

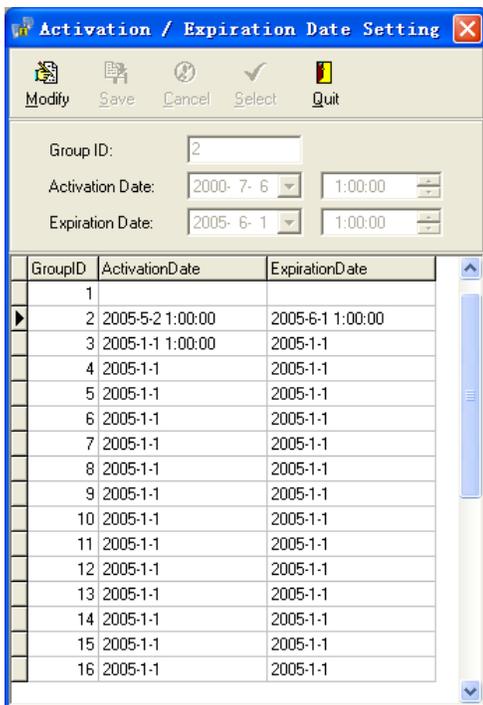
This function is used to set the lock automatically unlocked, locked, storehouse mode, or classroom mode at the setting time. There are 16 Timed Operation Groups in total, and up to 16 settings in each group. The first setting by default is No Limit Classroom Mode (The lock will stay at Passage mode all the time.) The second setting by default is No Limit Storehouse Mode (the lock will stay locked mode all the time).

There are four lock statuses the user can choose:



- Storehouse Mode: In this mode, the Lock will lock back in a few seconds (0.1-25.5 seconds).
- Classroom Mode: In this mode, the lock does not lock back. The use of a valid iButton or code simply makes the lock go from unlocked to locked or locked to unlocked.
- Lock Mode: In this mode, the lock will automatically lock at the setting time.
- Unlock Mode: In this mode, the lock will automatically unlock at the setting time.

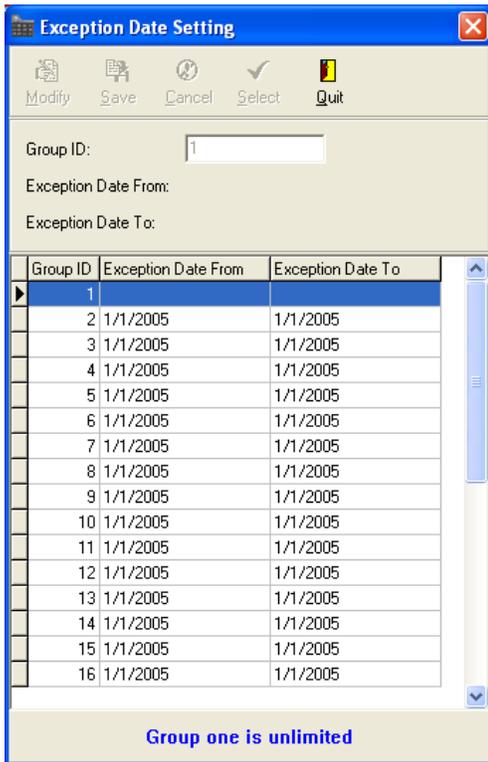
The timed operation setting is applied in the “Lock Setting” menu by changing the “Lock Status” section.



Activation / Expiration Date Setting

This function is used to set the activation date and expiration date of valid keys.

The first group is a default setting as No Limit setting. The rest of groups can be set an activation date and expiration date.



Exception Date Setting

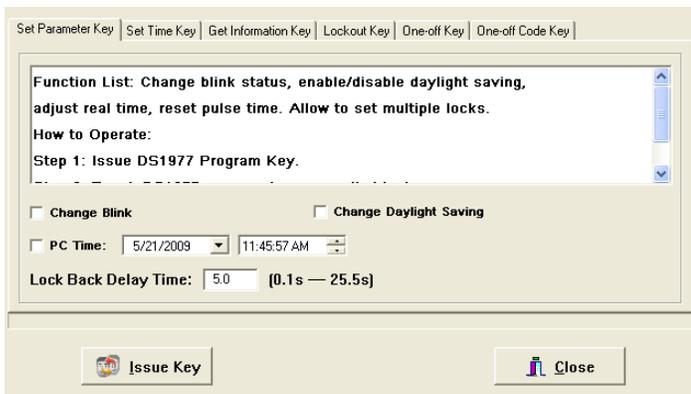
This function is used to set restrict access during periods such as holidays, facility shutdowns, vacations. The first group set as No Limit default setting. The holidays can be set as a single day or multiple days. The selected user iButton keys or codes will be restricted from access for all of the exception dates.

IV. Mission Management

Click “Mission Management” on the main screen and select “Maintenance Mission” from the drop down menu.

Set Parameter Key

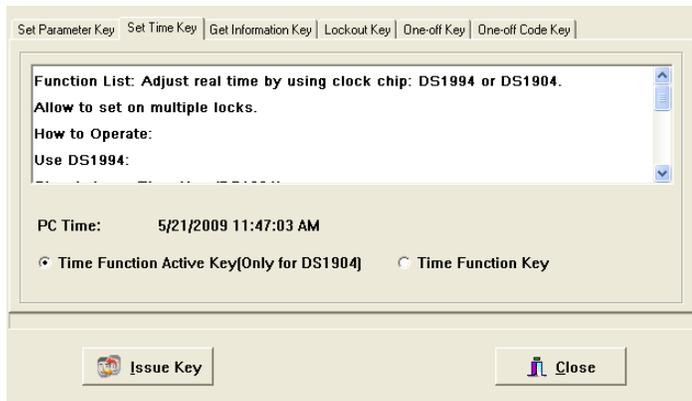
This mission will set lock parameters, such as LED “Blink”, lock passing time, adjust lock time, and enable “Daylight Saving”. To set the lock parameters, snap the program key into the encoder, press the “Issue Key” button, and then press the program key to the lock until it beeps twice to set the parameters.



Set Time Key

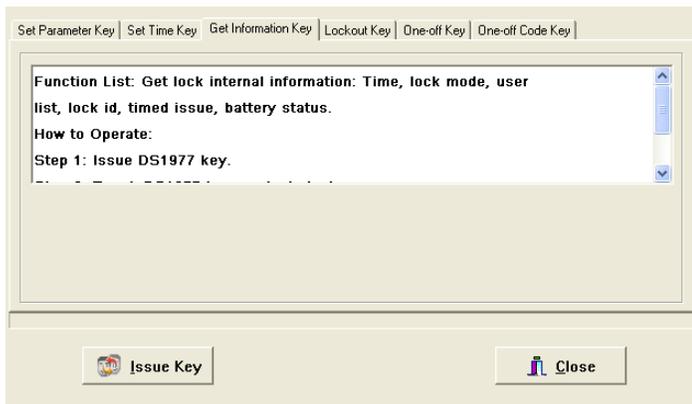
This step uses the DS1904 or DS1994 to set the real time of the lock

Tip: Other than DS1904/1994 real time key, the DS1977 program key can also set the time of the lock. But program key will cause time delay since programming the mission key and programming the lock will take time. We recommend using the DS 1904/1994 real time key if the programming process takes more than 3 minutes. To set the time, snap the program key into the encoder, press the “Issue Key” button, and then press the program key to the lock until it beeps twice to set the time.



Get Information Key

Get Information mission is a useful tool to retrieve the existing lock information, such as: Key list, lock time, Time Setting, lock ID, or Batteries voltage. To get the lock information, snap the program key into the encoder, press the “Issue Key” button, and then press the program key to the lock. The lock will make a series of quick beeps, and when it is done it will do two final beeps; remove the program key and snap it into the encoder. Press the “Read Key” button to read the information.



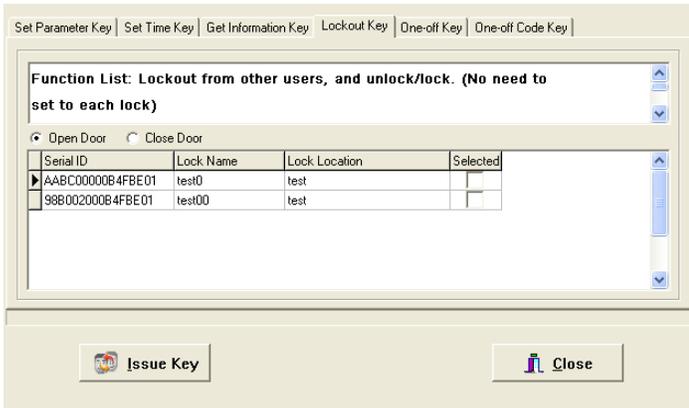
Key Serial ID: D3000000217B337		Key Type: Get Information Key		<input checked="" type="checkbox"/> Done	
Time Shift Setting Lock Status Setting Activation/Expiration Date Setting Exception Date Setting Key List Lock Information					
Lock Serial ID: AABC00000B4FBE01	Lock Name: test0				
Time In Lock: 5/22/2009 3:06:41 PM	Lock Location: test				
Key List Status: Enable	Manual Setup Status: Enable	Blink: Disable			
DayLight Saving Status: Disable	Lock Mode: Classroom Mode	Battery Voltage: 5.8			
DayLight Saving:	Lock Hardware Version: 2122	User Number: 1			
	Lock Software Version: 7.3	Audit Trial Number: 4			

Lockout Key

Lockout forbids all assigned keys/codes from operating the lock. Apply any Lockout key to put the lock in Lockout Mode, and apply again to release the Lockout Mode. To apply the key, snap the program key into the encoder, select open door or close door, press the “Issue Key” button, and then press the program key to the lock to set the Lockout Mode. There are two types of Lockout Modes.

- Lockout and Open: Lock will stay unlocked and lockout all users.
- Lockout and Close: Lock will stay locked and lockout all users.

Multiple locks can be selected in one key.



One-Off key/One-Off Code

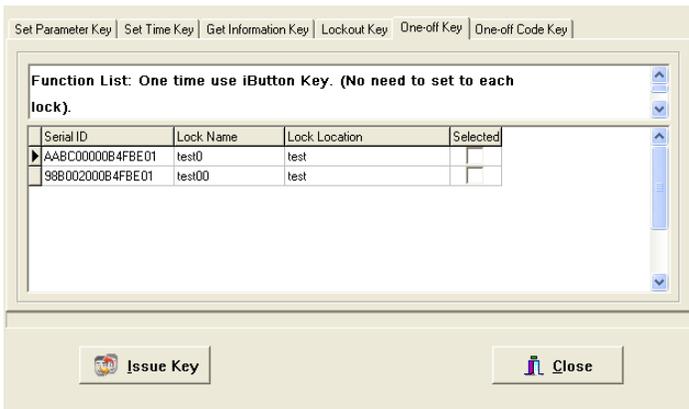
These are two types of One Time User: one time service key (DS-1977) or codes (up to 10)

➤ One-Off Key

Step1: Select locks from Lock List.

Step2: Issue key.

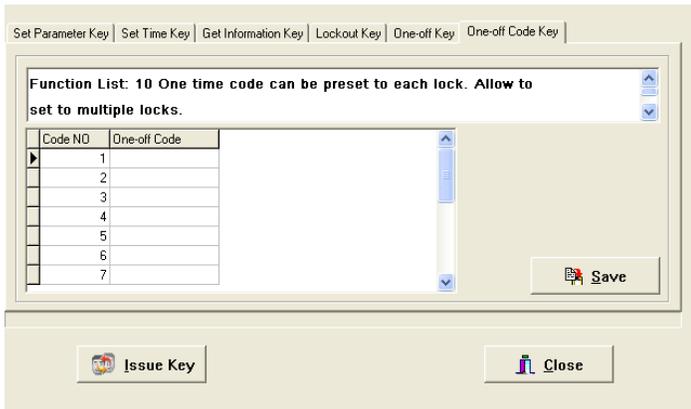
This key will immediately work on the selected lock one time only. (No need set up on the lock)



➤ One-Off Code

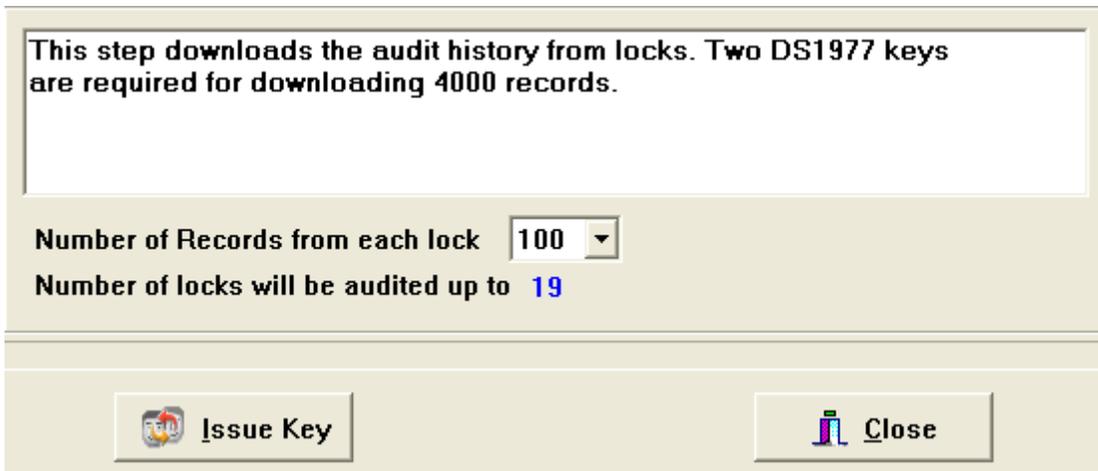
Entering 10 One off code in the list, use DS1977 key to issue a programming key and assign the codes to each lock. To set the codes, snap the program key into the encoder, press the “Issue Key” button, and then press the program key to the lock until the lock beeps twice to set the codes.

Use code# to open lock.



V. Audit Trial

Click “Mission Management” on the main screen toolbars and select “Advanced Mission” from the drop down menu, select “Get Audit Trial”:



1. Snap the program key to the encoder and click on “Issue Key” button.
2. A “Write Get Audit Trail key OK” message will pop up. Click OK to close the screen.
3. Unplug the program key and touch the lock’s iButton reader, you will hear a long series of chirps followed by two beeps.
4. Snap the program key back to the encoder and click “Read key” button. The read key screen will pop up; the audit trail records will roll up on the screen.
5. Click “Save Data” button, the audit trail records will be saved in the Database.

Key Serial ID: **D3000000217B337** Key Type: **Multi-Lock Audit Trail Key** Done

Number of records from each lock: **25** Save Data

Number of locks has been audited: **1**

First Name	Last Name	Open Lock Type	Open Lock Time	Lock Name	Lock Location	SerialID	Code Type
		Invalid Key	5/21/2009 11:19:18	test0	test	9000000F6474E101	
		Invalid Key	5/21/2009 11:20:09	test0	test	0A0022335C22B501	
		Close Lock With Key	5/21/2009 11:20:57	test0	test	D3000000217B337	
		Invalid Key	5/21/2009 11:21:21	test0	test	9000000F6474E101	
		Close Lock With Key	5/21/2009 11:21:27	test0	test	D3000000217B337	
		Invalid Key	5/21/2009 11:21:30	test0	test	9000000F6474E101	
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:21:34	test0	test	123	Perm
UCA	1	Close Lock With Key	5/21/2009 11:21:40	test0	test	040000037DBE6109	
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:04	test0	test	123	Perm
UCA	1	Close Lock With Key	5/21/2009 11:22:12	test0	test	040000037DBE6109	
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:15	test0	test	123	Perm
UCA	1	Close Lock With Key	5/21/2009 11:22:18	test0	test	040000037DBE6109	
UCA	1	Open Lock With Key(Classroom Mode)	5/21/2009 11:22:19	test0	test	040000037DBE6109	
UCA	1	Close Lock With Key	5/21/2009 11:22:20	test0	test	040000037DBE6109	
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:23	test0	test	123	Perm
		Invalid Key	5/21/2009 11:22:31	test0	test	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:34	test0	test	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:36	test0	test	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:38	test0	test	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:40	test0	test	9000000F6474E101	
		Invalid Code(OA)	5/21/2009 11:22:43	test0	test	147	Temp
		Close Lock With Code	5/21/2009 11:22:46	test0	test	159	TSub
		Invalid Code(OA)	5/21/2009 11:22:48	test0	test	147	Temp
		Invalid Code(OA)	5/21/2009 11:22:51	test0	test	148	Temp
		Invalid Code(OA)	5/21/2009 11:22:54	test0	test	156	Temp

Read Key Close

VI. History

Lock Audit History

Click “History” and choose “Lock Audit History” from drop down menu, the following screen will pop up:

First Name	Last Name	Open Lock Type	Open Lock Time	Status	Lock Name	SerialID	Code Type
		Close Lock With Code	5/21/2009 11:22:46 AM		test0	159	TSub
		Close Lock With Key	5/21/2009 11:20:57 AM		test0	D3000000217B337	
		Close Lock With Key	5/21/2009 11:21:27 AM		test0	D3000000217B337	
UCA	1	Close Lock With Key	5/21/2009 11:21:40 AM	Active	test0	040000037DBE6109	
UCA	1	Close Lock With Key	5/21/2009 11:22:12 AM	Active	test0	040000037DBE6109	
UCA	1	Close Lock With Key	5/21/2009 11:22:18 AM	Active	test0	040000037DBE6109	
UCA	1	Close Lock With Key	5/21/2009 11:22:20 AM	Active	test0	040000037DBE6109	
		Invalid Code(OA)	5/21/2009 11:22:43 AM		test0	147	Temp
		Invalid Code(OA)	5/21/2009 11:22:48 AM		test0	147	Temp
		Invalid Code(OA)	5/21/2009 11:22:51 AM		test0	148	Temp
		Invalid Code(OA)	5/21/2009 11:22:54 AM		test0	156	Temp
		Invalid Key	5/21/2009 11:19:18 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:20:09 AM		test0	0A0022335C22B501	
		Invalid Key	5/21/2009 11:21:21 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:21:30 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:31 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:34 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:36 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:38 AM		test0	9000000F6474E101	
		Invalid Key	5/21/2009 11:22:40 AM		test0	9000000F6474E101	
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:21:34 AM	Active	test0	123	Perm
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:04 AM	Active	test0	123	Perm
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:15 AM	Active	test0	123	Perm
UCA	2	Open Lock With Code(Classroom Mode)	5/21/2009 11:22:23 AM	Active	test0	123	Perm

Query By

Open Lock Time: 5/21/2009 To 5/21/2009 Lock Name: First Name:

Open Lock Type: Lock Location: Last Name:

Order By

Open Lock Type Lock Name Lock Location Last Name

Query Print Export Clear Close

Here’s how to view the saved data:

1. On “Query By” give the time window of the audit records, and check the key words.
2. On “Order By” check the key words of the records order.
3. Click “Query” button, the records will show on the screen.

4. Click “Export” to save a copy of the audit trail and records the information to an Excel file.

Access Code history

All the remote temporary codes and one-time service codes will be saved for future reference

Lock Name	Lock Location	First Name	Last Name	Access Code	Code Type	Start Date	End Date	Date Created	Created By	Code Version
test0	test	UCA	1	3091024044	Temp	5/21/2009	5/22/2009	5/21/2009 11:35:40 AM	dallas	1
test0	test	UCA	1	5370365343	Temp	5/21/2009	5/23/2009	5/21/2009 11:35:43 AM	dallas	1
test0	test	UCA	1	2982402300	Temp	5/21/2009	5/24/2009	5/21/2009 11:35:45 AM	dallas	1
test0	test	UCA	1	2327200750	Temp	5/21/2009	5/25/2009	5/21/2009 11:35:46 AM	dallas	1
test0	test	UCA	1	3124025228	Temp	5/21/2009	5/26/2009	5/21/2009 11:35:47 AM	dallas	1
test0	test	UCA	1	3065595993	Temp	5/21/2009	5/27/2009	5/21/2009 11:35:49 AM	dallas	1
test0	test	UCA	1	1617113111	Temp	5/21/2009	5/28/2009	5/21/2009 11:35:50 AM	dallas	1
test0	test	UCA	1	0985542266	Temp	5/21/2009	5/29/2009	5/21/2009 11:35:52 AM	dallas	1
test0	test	UCA	1	6847206404	Temp	5/21/2009	5/30/2009	5/21/2009 11:35:53 AM	dallas	1
test0	test	UCA	1	146495310325	Temp	5/21/2009	8/30/2009	5/21/2009 11:35:57 AM	dallas	1
test0	test	UCA	1	302430421515	Temp	5/21/2009	8/5/2009	5/21/2009 11:35:58 AM	dallas	1
test0	test	UCA	1	520517855351	Temp	5/21/2009	8/5/2009	5/21/2009 11:35:59 AM	dallas	2
test0	test	UCA	1	645818683312	Temp	5/21/2009	8/5/2009	5/21/2009 11:35:59 AM	dallas	3
test0	test	UCA	1	123800710040	Temp	5/21/2009	8/5/2009	5/21/2009 11:35:59 AM	dallas	4
test0	test	UCA	1	367509208005	Temp	5/23/2009	10/5/2009	5/21/2009 11:36:03 AM	dallas	1
test0	test	UCA	1	904432364139	Temp	5/23/2009	10/5/2009	5/21/2009 11:36:03 AM	dallas	2
test0	test	UCA	1	452254052905	Temp	5/23/2009	10/5/2009	5/21/2009 11:36:03 AM	dallas	3
test0	test	UCA	1	532837928312	Temp	5/23/2009	10/5/2009	5/21/2009 11:36:03 AM	dallas	4
test0	test	UCA	1	215730118388	Temp	5/23/2009	11/20/2009	5/21/2009 11:36:06 AM	dallas	1
test0	test	UCA	1	610494524091	Temp	5/23/2009	11/20/2009	5/21/2009 11:36:07 AM	dallas	2
test0	test	UCA	1	454918284043	Temp	5/23/2009	11/20/2009	5/21/2009 11:36:07 AM	dallas	3
test0	test	UCA	1	556265468203	Temp	5/23/2009	11/20/2009	5/21/2009 11:36:07 AM	dallas	4
test0	test	UCA	1	4881934944	Temp	6/19/2009	7/4/2009	5/21/2009 11:36:34 AM	dallas	1
test0	test	UCA	1	3129024284	Temp	6/19/2009	7/4/2009	5/21/2009 11:36:35 AM	dallas	2
test0	test	UCA	1	7555124965	Temp	6/19/2009	7/4/2009	5/21/2009 11:36:35 AM	dallas	3

Query By

Start Date: 5/21/2009 To 5/21/2009 Lock Name: Guest First Name:

End Date: 5/21/2009 To 5/21/2009 Lock Location: Guest Last Name:

Date Created: 5/21/2009 To 5/21/2009 Created By: Code Type:

Operator Log

When select “Operator Log”, the following screen will show:

Query By

Login Time: 5/21/2009 To 5/21/2009 Login Name:

Logout Time: 5/21/2009 To 5/21/2009 Logout Level:

Order By

Login Time Logout Time Login Name Login Level

Login Time	Logout Time	Login Name	Login Level
5/20/2009 10:56:49 AM	5/20/2009 11:47:53 AM	dallas	Administrator
5/20/2009 11:48:39 AM	5/20/2009 5:43:39 PM	dallas	Administrator
5/21/2009 9:13:05 AM	5/21/2009 9:14:09 AM	dallas	Administrator
5/21/2009 9:14:16 AM	5/21/2009 9:14:53 AM	dallas	Administrator
5/21/2009 9:18:04 AM	5/21/2009 9:18:23 AM	dallas	Administrator
5/21/2009 9:20:03 AM		dallas	Administrator

Using the same method to manage the operator log, and audit the operators’ activity.

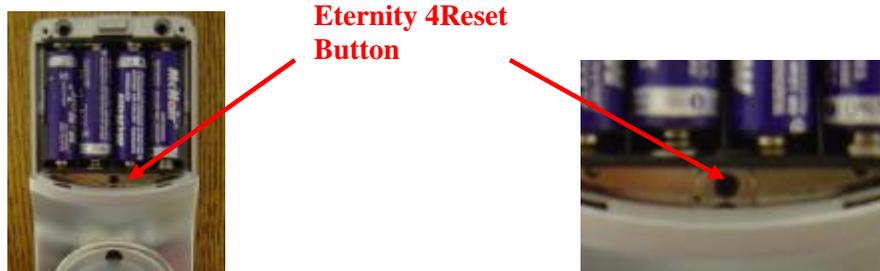
Section 3 Non-software Guide

This section is for the use of either the Eternity 4 or Eternity 5 without software. If you use the software to setup the lock, then you can no longer use these functions without resetting the lock. Likewise, if you use the programming code to manually setup the lock, you can not use the software with the lock unless you reset and do a new lock setup mission.

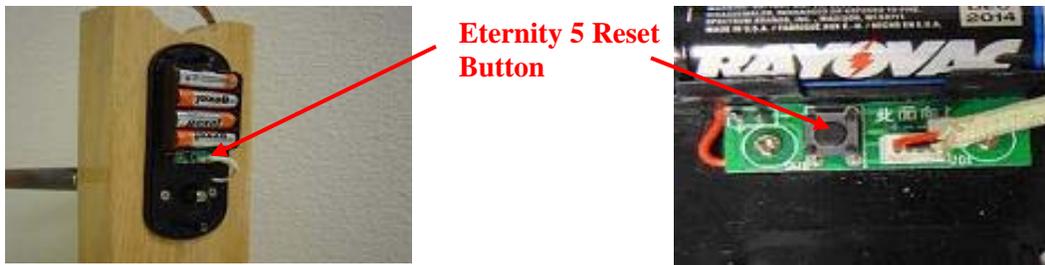
I. General Information:

- **Exit Setting:** Enter * to exit the setting procedure, or wait for 10 seconds
- **Low Battery warning:** When the voltage drops below 4.8V, after entering a valid code, the red LED will flash and beep five times.
- **Unlock:** Green light flashing twice and Beeps twice.
- **Lock:** Red Light flashing three times, and beeps three times.
- **Reset:** To set the lock back to default (**123456**), press and hold the reset button for about 10 seconds (3 beeps with LED blink red). The reset button is located below the battery holder.

The reset button for the Eternity 4 is shown below.



The reset button for the Eternity 5 is shown below.



II. Manufacture Default Setting:

- **Daylight Saving:** Disabled
- **Auto unlock/lock:** Disabled
- **Default Programming Code:** 123456
- **Lock Mode:** Storehouse

III. Steps to setup a new lock (please follow the order)

1. Change programming code (For example, change to **247365**)
123456 # **11** # **247365** # **247365**
1. Enable daylight saving (optional)
247365 # **31**
2. Set lock time (optional) (For example, set time as January 23, 2008, 2:45PM)
247365 # **88** # **0801231445**
3. Add user code (For example, add 1357 to the lock)
247365 # **01** # **1357** # #
4. Add iButton key (Optional)
247365 # **01** # iButton key touch lock reader #
5. Set schedule for user code or iButton key (see instructions below)

IV. Types to operate the lock:

- **Keycode:** User Code, #
- **iButton:** iButton key touch lock reader
- **iButton+Keypad:** iButton touch lock reader, LED grow green, enter user code, #

- **One time service code:** One time code, #
- **Manual key:** Turn the override key 90 degree clockwise, then turn the handle

V. Terms:

Program code: The program code puts the lock into a programming mode. It will not lock/unlock the lock. When #, **program code**, # is entered, the red LED starts to flash indicating the lock is in a programming mode. If more than 6 seconds pass in between programming entries, the lock will return to normal operational state. For maximum security it is necessary to **change the default program code**.

Installer code: Installer code is a default temporary code (0) for installer testing the lock. The code will be deleted after the first new user code is added to the lock.

User code: User code is the Normal code for the day-to-day operations.

Service code: Service Codes are used for a special purpose such as maintenance personnel or vendors. Service Code only grants one time access. Total of 10 sets of service codes can be programmed to each lock.

Index #*: Each code or iButton will associate with a unique number, we call it index# (or slot#). The Index # is auto generated by lock and starts with 000. The highest Index# will be 299; therefore up to 300 users can be added to each lock.

* Please log the user code along with its index # for future reference

Passage mode: When Passage Mode is enabled, the lock will stay in unlocked after first valid entry. Re-enter a valid entry to lock back.

Storehouse mode: for each valid entry, lock will automatically lock back in 5 seconds.

Lockout: Enable the Lockout mode will freeze the lock at its current state (Lock or unlock), temporarily disable all the user codes and iButton keys. Re-enter the function code 99 to disable the lockout mode, and resume

Clearing lock memory:

Press and hold reset button for 10 seconds with 3 short beeps; it will delete all the codes, iButtons, and restore factory default setting.

VI. Functions

How to change programming code (and not delete existing user codes)

❑ Function Code: 11#

- {#}+{default master code#}+{11#}+{new master code#}+{new master code#}

How to change programming code (and delete all existing user codes)

❑ Function code: 22#

- {#}+{current master code#}+{22#}+{new master code#}+{new master code#}

How to enable daytime saving

❑ Function Code: 31#

- {#Master code#}+{31#}

How to set date and time

❑ Function Code: 88#

- {#Master code#}+{88#}+{yymmddhhmm#}

How to add one user code (no time restriction)

❑ Function Code: 01#

- {#Master code#}+{01#}+{user code# # #}

How to add multi-user code (no time restriction)

❑ Function Code: 01#

- {#Master code#}+{01#}+{user code(1)# # #}+{user code(2)# # #}+{user code3###} ... and so on

How to add one user access code (with time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+{user code#}+{yymmddhhmm#(start time)}+{yymmddhhmm#(ending time)}

How to add multi-user code (with time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+{user code#(1)}+{yymmddhhmm#(start)}+{yymmddhhmm#(ending time)} + {user code#(2)}+{yymmddhhmm#(start)}+{yymmddhhmm#(ending)} ...and so on

How to add one iButton key (no time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+{touch iButton # #}

How to add multi-user iButton key (no time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+{iButton(1)# #}+{iButton(2)# #} ...and so on

How to add user code + iButton key as dual user (no time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+{user code#}+{touch iButton# #}
(To access door: touch “iButton key” + “user code #”)

How to add one iButton key (with time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+touch {iButton}+{yymmddhhmm#(start time)}+{yymmddhhmm#(ending time)}

How to add multi-iButton key (with time restriction)

- ❑ **Function Code: 01#**
 - {#Master code#}+{01#}+touch {iButton key(1)}+{yymmddhhmm#(start)}+{yymmddhhmm#(end time)}+ touch {iButton key(2)}+{yymmddhhmm#(start)}+{yymmddhhmm#(end time)} ...and so on

How to disable one user code or iButton key with index#

- ❑ **Function Code: 02#**
 - {#Master code#}+{02#}+{index #}

How to enable one user code or iButton key with index#

- ❑ **Function Code: 03#**
 - {#Master code#}+{03#}+{index code#}

How to enable passage mode and schedule (lock back when the passage mode end)

- ❑ **Function Code: 15#**
 - {#Program#}+{15#}+{Schedule}+{#}+{begin time & ending time#}

How to disable passage mode

- ❑ **Function Code: 16#**
 - {#Master#}+{16#}

How to enable LED blink light (on & off)

- ❑ **Function Code: 18#**
 - {#Master code#}+{18#}

How to disable daytime saving

- ❑ **Function Code: 32#**
 - {#Master code#}+{32#}

How to set up one time service code (up to 10 service codes)

- ❑ **Function Code: 33#**
 - {#Master code#}+{33#}+{service code(1)#}+ {service code(2)#}+... and so on

How to delete user code or iButton key with index #

- ❑ **Function Code: 44#**
 - {#Master code#}+{44#}+{index#}

How to delete one user code / iButton key (without index number)

- ❑ **Function Code: 46#**
 - {#Master code#}+{46#}+{user code#} (or iButton key)

How to de-active user code / iButton key (without index number)

- ❑ **Function Code: 48#**
 - {#Master code#}+{48#}+{user code} (or iButton key)

How to In-active user code or iButton key without index number

- ❑ **Function Code: 47#**
 - {#Master code#}+{47#}+{user code} (or iButton key)

How to enable auto-unlock function

- ❑ **Function Code: 64#**
 - {#Master code#}+{64#}

How to setup auto-unlock time (it will auto unlock the door everyday at assigned time)

- ❑ **Function Code: 63#**
 - {#Master code#}+{63#}+{HHMM#}

How to disable auto-unlock function

- ❑ **Function Code: 65#**
 - {#Master code#}+{65#}

How to enable auto-lock function

- ❑ **Function Code: 67#**
 - {#Master code#}+{67#}

How to setup auto-lock time (it will auto lock the door everyday at assigned time)

- ❑ **Function Code: 66#**
 - {#Master code#}+{66#}+{HHMM#}

How to disable auto-lock function

- ❑ **Function Code: 68#**
 - {#Master code#}+{68#}

How to enable / disable Lock-out (lock out all users if enabled)

- ❑ **Function Code: 99#**
 - {#Master#}+{99#}

How to program schedule week & time

- ❑ **Function Code: (45#)**
 - 1st enable daylight saving
 - 2nd set up date & time (use 88# function code)
 - 3rd adding user code or iButton key in advance (see above how to add user code & iButton)
 - 4th program schedule (as below)

Weekly Chart

Sun	Mon	Tue	Wed	Thu	Fri	Sat
0	1	2	3	4	5	6

Formula: {#master code#}+{function code#}+{user code# or iButton}+{select week number#}+{begin time & ending time#}

- **How to program schedule with an “user code”**
Example: {#23456# + 45# + 2222# + 135# + 08301730#}

#23456#	45#	2222#	135#	0830	1730#
Master code	Function code	User code	Mon/Wed/Fri	Beginning time	4. Ending time

0800=8:00AM 1730=5:30PM

Section 4 Case Study

University Park Business Center, Denton, TX

Problem: The **Luxury Home Builders** is one of the largest custom home / office builders in north Texas. One of the examples is the University Park Business Center. Since the business center is designed for leasing to various business owners, Contractors, and local churches, access control becomes a big issue for them.

Solution: iButton Lock and Door Controller. The Builder selected iButton lock for its versatility, increased security features, and ease of key management. With addition of Eternity Lock Management system, security has vastly improved. The inherent problems of maintaining a mechanical key system, including re-keying and changing core, are tasks relegated to the past. Base on the builder's requirement, we divided the whole project into 5 different applications:

Main Entry: Set Lock to Classroom mode at 8:00AM, Monday to Friday, and set the lock back to storehouse mode, and lock the lock at 5:00PM, Monday to Friday.

Step 1: Time Setting, set the Timed Operation group 3 from Monday to Friday, 8:00am classroom mode. 4:59pm to Storehouse mode. 5:00pm, Lock mode. Here is the timetable for the lock:

Begin Time	Lock Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
8:00:00 AM	Classroom Mode		True	True	True	True	True	
4:59:00 PM	Storehouse Mode		True	True	True	True	True	
5:00:00 PM	Lock Mode		True	True	True	True	True	

*Saturday and Sunday will stay on Storehouse Mode base on the last action of the lock.

Step 2: Edit Lock property at Lock Setting. Change the Lock Status to Timed Operation Group3.

Step 3: Select maintenance mission and Set Time Table Key and select the Entry lock from field

Step 4: Issue Program Key.

Step 5: Take Program Key to the Entry lock. Touch and hold it to the Reader. You will hear a series of chirps followed by two beeps.

Passage Door: Between the two buildings, the passage door will stay open during the office hours, and stay in storehouse mode after hours and Weekends. Only the property owner and facility manager have the unlimited right. Here is the setting for the lock:

Begin Time	Lock Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat
7:59:00 AM	Classroom Mode		True	True	True	True	True	
8:00:00 AM	Unlock Mode		True	True	True	True	True	
4:59:00 PM	Storehouse Mode		True	True	True	True	True	
5:00:00 PM	Lock Mode		True	True	True	True	True	

*Saturday and Sunday will stay closed.

Exit Door: Only the property owner and facility manager have the right to enter these doors from outside.

Conference and Activity Rooms: The local Church rent the rooms for the evening and weekend Bible study and worship. From 6:30PM to 10:00PM, Monday to Friday, Saturday from 1:00PM to 10 PM, and Sunday from 8:00AM to 9:00PM.

Step 1: Time Setting, set Time Shift 3 from Monday to Friday, 6:30PM to 10:00PM, Saturday from 1:00PM to 10:00PM, and Sunday from 8:00AM to 9:00PM. Here is the timetable for the keys:

Begin Time	End Time	Day of Week
6:30:00PM	10:00:00PM	Monday
6:30:00PM	10:00:00PM	Tuesday
6:30:00PM	10:00:00PM	Wednesday
6:30:00PM	10:00:00PM	Thursday
6:30:00PM	10:00:00PM	Friday
1:00:00PM	10:00:00PM	Saturday
8:00:00AM	09:00:00PM	Sunday

Step 2: Edit the Keys property in Key Setting. Set the Time Shift group to Time Shift 3. (Set expiration date if needed)

Step 3: Use Key Management Mission, assign Keys to Locks.

Step 4: Issue Program Key.

Step 5: Take Program Key to the Lock. Touch and hold to the Reader. You will hear a series of chirps followed by two beeps.

Office Rooms: Base on the usage of the offices, we set different timetables for each individual office and time shift for the users, also we set Expiration Date to the contractors' keys.

Section 5 Trouble Shooting Guide

Problem	Possible Reason	Solution
iButton Key is not working	It's a time restrict key	1. Check Time Shift setting 2. Use "Get Lock Information Key" to see if this key is in the list, and if the internal clock is correct
Red light is on, and three beeps	Batteries low	1. Change Batteries and 2. Reset the lock time
Green light is on and two beeps, but motor is not running	No power to lock motor	Make sure the motor wire is firmly connected to the PCB
Temporary Key Code is not working	Access code is expired or lock time off	Check the expiration date on the access code and time inside lock
Lock doesn't accept any valid iButton key	Lock is in Lockout Mode	Issue a new Lockout Key to release the lockout mode
Will changing battery erase the key list	NO	The key list and timetable are stored inside the flash memory, disconnecting the batteries can't erase the non-volatile, solid-state flash memory.
After changing the battery. Temporary code stop working	Internal Time is lost	Do a Time Key to adjust internal time

If you need additional support, please contact your local distributor or at 1-866-241-9874

Warranty Registration Form

Customer Information:

Date Purchased: _____ Purchase From (company name): _____

Model: _____ Serial Number: _____

First Name: _____ Last Name: _____

Daytime Phone: _____ E-mail: _____

Shipping Address: _____

City: _____ State: _____ Zip Code: _____

✂ ----- ✂ ----- ✂ -----

Mail Registration Form to:

Inc

Attn: Registration Dept

PO Box 250128

Plano, TX 75025

Warranty and RMA Guidelines

Receiving Your Order

1. Upon receipt of your new merchandise, please inspect carefully as to the contents and condition. All claims for damaged or missing items MUST be reported to within five (5) business days upon receipt of merchandise. In the event your package arrives damaged, it is the responsibility of the customer to contact the carrier to inspect the package to assure full refund/replacement. All packaging MUST be retained until the problem has been resolved.
2. Carefully unpack and inspect all merchandise. Please DO NOT damage the manufacturer's packaging. DO NOT throw away any material included with the package until you are absolutely certain the product has not been damaged. We cannot accept merchandise for return with incomplete or damaged or missing collateral material.
3. Maintain your Invoice. Read all instruction manuals BEFORE testing your equipment.
4. accepts neither responsibility nor liability for any consequential or incidental damages resulting from the installation or operation of any merchandise purchased from us.

Return/Exchange Policy

NO RETURNS WILL BE ACCEPTED WITHOUT R.M.A# (Return Merchandise Authorization Number)

You can return or exchange, excluding any shipping and handling charge, within a period of thirty (30) days for lock merchandise and fourteen (14) days for accessories, if you are not satisfied with the products. If defective, items may be exchanged for the same model only. Special Order items are not returnable. will not accept any returns or exchanges on Batteries, Memory Chips, User Keys or any other consumable products.

Inc. Basically does not take ADVANCE SHIP or CROSS SHIP unless otherwise approved by authorization within 1 year of purchase.

Prior to returning any item, YOU MUST call Customer Service for pre-approval RMA number. All merchandise purchased from is sold in its original factory packaging with all contents as supplied to us by the manufacturer. Items can be returned only if in original packaging, same new condition as sold with literature/instructions. Place the manufacturer's box into a shipping box. Please do not put any stickers or labels on the original manufacturer's packaging. Please ship the items back to us with freight prepaid. do not responsible for lost or damaged packages.

Attach a copy of original invoice with freight pre-paid for Warranty / RMA service.

If any of the above conditions are not met, reserves the right to either refuse the return or to charge a restocking fee for not less than 15%.

Warranties

Most items sold by are covered by a manufacturer's one-year parts warranty from the purchasing day. (Labor is not included).

Technical Assistance Hotline: 866-241-9874

As part of our continuing commitment to all our customers, 's technically proficient sales associates can guide you in determining what products best solve your situations. With their combined experience, we're confident that our Tech-Associates have the background and talent to help you narrow your choices to the precise items that best suit your particular requirement.

WARRANTY DOES NOT INCLUDE LABOR, TRAVEL CHARGES, OR ANY OTHER COSTS INCURRED FOR REPAIR, REMOVAL, INSTALLATION, SERVICING, DIAGNOSING OR HANDLING OF EITHER DEFECTIVE PARTS OR REPLACEMENT PARTS