

Vindicator[®]

Lock II



Administrator's Guide

Table of Contents

Table of Contents i

Preface 1

 Using this manual..... 1

 Terminology..... 1

 Procedures..... 1

 Assumption 1 1

 Assumption 2 1

 Front Panel..... 2

 What the Front Panel is For 2

 The ADMINISTRATION Menu 3

Working with Keys..... 4

 The KEY Menu 4

 Key Permissions 4

 Key Authority Levels..... 7

 Key Levels..... 7

 Enrolling a New Key..... 10

 Entering an Employee’s Name..... 11

 Deactivating Keys 12

 Modifying Keys 14

 Changing Key Permissions 15

 Changing Key Administration Authority 16

 Repairing Keys 17

Running Reports..... 18

 Printing History Reports 18

 Interpreting Printed History 19

 Displaying History Reports..... 21

 Event Type Listing — By Name 22

 Event Type Listing — By Number..... 28

 Getting a Database Report..... 34

 To Print the Contents of the Database..... 34

 To Display the Database 34

Interpreting Database Reports 35

 First Section..... 35

 Second Section..... 37

 Third Section 38

Permission Numbers 40

Setting Parameters 43

 Setting the Time & Date..... 43

 Setting Daylight Savings Time..... 44

 Setting Up Holidays 45

 Holiday Intervals 45

 Setting Time Locks 46

Setting Operating Parameters 48

 PIN Entry Requirements 48

 Duress PINs 48

 PIN Reject Mode..... 48

 PIN Life 49

 PIN Reject Limit 49

 Log in Delay Duration 49

 To Set PIN Parameters..... 50

 Miscellaneous Operating Parameters 51

 Minimum/Maximum Key Level..... 51

 Idle Key Life..... 51

 Setting Access Parameters..... 51

 Entry Door Timing..... 52

 Overrides..... 52

 Lost Key Override 52

 Outer Door Delay and Time Lock Override..... 53

 Setting the Idling Text..... 54

Troubleshooting Guide 55

 Troubleshooting 55

Appendix 1 – Lock Parameters Chart..... 57


 Access Parameters..... 57

Time Lock Intervals	57
Door 1	57
Door 2	58
Door 3	58
Door 4	59
Door 5	59
Door 6	60
Door 7	60
Door 8	61
Appendix 2 – Key Permissions Chart.....	63
Key Permissions.....	63
Appendix 3 — Location Codes and Location Restrictions.....	67
Location Restriction.....	67
Appendix 4 – Example Key Setup 1.....	69
Key Setup.....	69
Appendix 5 – Example Key Setup 2.....	71
Appendix 6 – Vindicator Lock Permissions.....	73
Appendix 7 — Menu Tree	75
Warranty Service	77
Returning Material	77
Out-of-Warranty Service.....	77

Preface

Using this manual

This manual explains the responsibilities that accompany being a Vindicator Lock II administrator. As the administrator you have the authority to make far-reaching changes in the way the lock operates and in who has access to the safe and under what circumstances. Use these powers carefully — it is much easier to avoid mistakes than it is to later find and correct them.

If you have never  the Vindicator Lock II before, you should read the *Operator's Guide* that was shipped with your lock(s). It explains how to “log in” to the lock, operate the keypad, and other activities you must understand to operate the lock.

Important Note

Your Vindicator Lock *may* display messages that are not the same as those shown in the illustrations in this manual. That is because changes may have been made to the lock's configuration earlier.

Terminology

Throughout this document we use the term “target key.” The target key is the key you are enrolling, deactivating, or changing. When talking about the administrator's key, we simply say “your key.”

If equipped with the “Entry Door” option, the Vindicator Lock II can read keys and operate the door strike for one entry door to the establishment.

Procedures

If we explained every possible variation and every possible step every time you might need it, this book would be too big to carry around. So we've made a couple of assumptions about you and your key before we start.

Assumption 1

In most of the examples shown in this book, we've assumed that you've logged on to the Vindicator Lock II and have already chosen the ADMINISTRATION option from the main menu.

Assumption 2

In every procedure we assume that your key has the levels and authorities required to perform the procedure. If an option doesn't appear, or doesn't seem to work right for you, a key level or authority is usually the problem. In these cases you'll have to talk to your manager to verify that you have the permissions and authority levels you need to do the procedure.

Front Panel

The Vindicator Lock II front panel contains the display, the key receptacle, a keypad and a beeper. The front panel is shown in Figure 1.

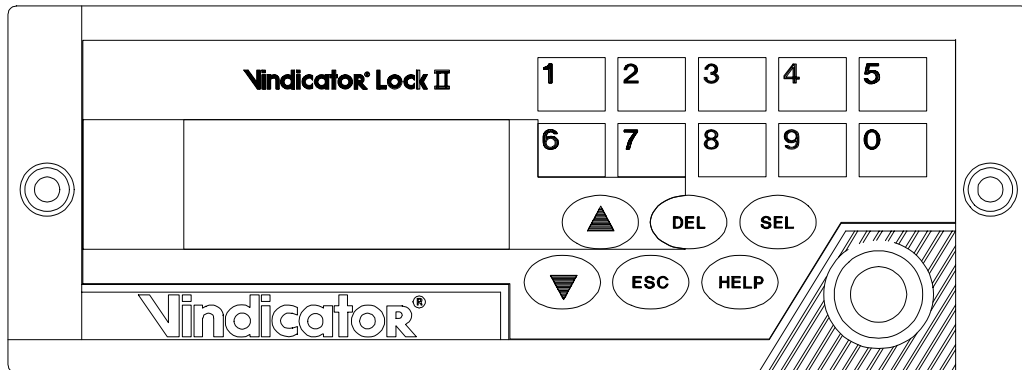


Figure 1. Vindicator Lock II Front Panel

What the Front Panel is For

The front panel is your communications link to the electronics inside the Vindicator Lock II. It has four basic uses.

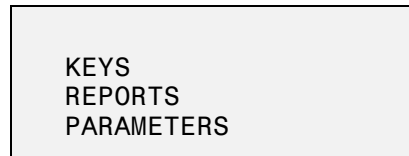
- Read the display to find out what the Vindicator Lock II wants you to do, or to select one of a list of options.
- Use the key receptacle to “log in” to the Vindicator Lock II. Logging in is described in the *Operator’s Guide*.
- Use the keypad to communicate with the Vindicator Lock II.
- The beeper
 - clicks each time you press a button on the keypad
 - beeps intermittently to remind you of things such as when a time delay is completed or that the safe door is open
 - beeps continuously to inform you of door alarm events.

The ADMINISTRATION Menu

The ADMINISTRATION option on the main menu will be your “home base.” You start from this menu option to

- enroll and deactivate keys,
- obtain reports,
- set time delays, and
- perform other administration actions.

The ADMINISTRATION menu is shown here.



If any of these items do not appear on your Vindicator Lock II, your key does not have that permission.

Working with Keys

Vindicator Lock keys, unlike ordinary keys, can be changed to meet changing circumstances. For example, you can “deactivate” keys and “enroll” keys. Deactivated keys don’t work at all until they are re-enrolled. You might “deactivate” the key of an employee who quit without returning his key. Then later, if he comes back, he will find that even if he remembers his PIN, the key no longer works. If he returns his key, you can “enroll” it so that another employee can use it.

There are several factors that can influence the way the Vindicator Lock II operates when you administer keys. We recommend that you read the sections on Key Permissions and Key Authority Levels *before* you make any changes to a key.

The KEY Menu

To do anything with keys, you start at the KEYS menu. To reach the Keys menu:

You Do This	The Vindicator Lock Does This
1. Log in to the Vindicator Lock.	CHANGE PIN OPEN DOORS ALARM PANEL ADMINISTRATION
2. Select ADMINISTRATION	KEYS REPORTS PARAMETERS
3. Select KEYS	ENROLL MODIFY DEACTIVATE REPAIR

Key Permissions

Each Vindicator Lock II can perform a number of different functions such as opening a safe door, resetting time locks, or deactivating keys. Exactly which functions you can do is determined by the “permissions” that have been assigned to your key. In other words, you cannot perform any function for which your key does not have a permission.

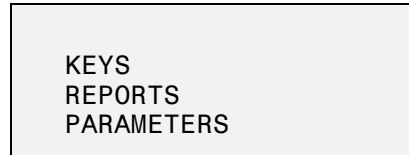
Your key was shipped from the factory with certain permissions. Some or all of these permissions may have been changed in the past. You will have to check with your management to see what permissions your key has. You can also print a database report which will contain that information.

The following list shows which Vindicator Lock II functions are controlled by key permissions.

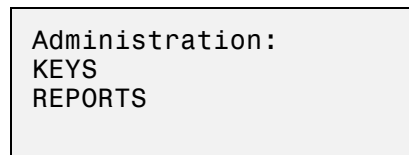
- Opening doors
- Printing history.
- Displaying history.
- Printing the database.
- Displaying the database.
- Adjust Daylight-Savings schedule.
- Setting Access Parameters for Outer Doors.
- Setting Access Parameters for Inner Doors.
- Setting Openable Intervals for Outer Doors.
- Setting Openable Intervals for Inner Doors.
- Setting Access Parameters for Cash Drops.
- Setting Access Parameters for the Entry Door.
- Setting time and date.
- Setting Operating Parameters.
- Remote Log in. A key without this Permission cannot Log in from a PC.
- Setting Openable Intervals for Cash Deposits.
- Setting Openable Intervals for the Entry Door.
- First Key Timelock Override
- Second Key Timelock Override.
- Log in without a PIN.
- Enrolling Factory Key.
- Making keys. A key with this Permission may use the KeyMaker.
- Performing factory Setup. This is the permission that distinguishes a Factory Key. Factory keys can change the Company Code, Location Code, Key Series, or Door Configuration, or initialize the History or Key Database. (Some of these capabilities are protected by additional Permissions.)
- Enrolling keys.
- Deactivating keys.
- Modifying permissions and other key data.
- Arming/Disarming the alarm panel.

You can tell if your key has permission to change a specific item by the way the menus look. If your key has a permission, the item appears on the menu. If it does *not* have permission for an item, that menu item *does not appear* on the menu.

The menu shown below has permissions for all administration functions.



This figure shows how the menu would appear for a key that had only Key and Report administration permissions.



Key Authority Levels

Besides having a variety of Permissions, each key also has “levels” that control who is permitted to enroll, deactivate, or modify whom. Even though your key may have the permission to enroll, deactivate or modify some keys, it may not have the “level” required to do so. Usually this means that you can do things to keys that are held by your subordinates but that you cannot do things to your supervisor’s keys.

Key Levels

Every key has four “levels” assigned to it.

- Key Level
- Enrollment Level
- Key Administration Authority
- Maximum Key Administration Authority.

The *key level* is an arbitrary* value that is represented by a number from 1–100. Usually, the higher the *key level*, the more powerful the key, but how that works is up to you. Key levels may only be set using a Key Maker.

The *enrollment level* is usually the same as the key level although that is not always the case.

The *Key Administration Authority* is the highest key level over which your key can exercise administration actions.

The *Maximum Key Administration Authority* is set at the factory (using a Key Maker); it defines the highest Key Administration Authority a given key may possess. The Key Administration Authority is usually equal either to its Key Level minus 1 (not to go less than 0) or to its Maximum Key Administration Authority, *whichever is smaller*.

Rules

- Rule 1** You can *enroll* a key only if your Key Administration Authority is equal to, or higher than the target key’s *Enrollment Level*.
- Rule 2** You can *modify* or *deactivate* a key only if your Key Administration Authority is equal to or higher than the target key’s *Key Level*.

* This value is not totally arbitrary. Keys whose key level exceeds the lock’s minimum-maximum key level are exempt from certain types of automatic key deactivation.

Modifying Key Permissions

You can modify another key's permissions only if you have permission to do so *and* only if the change you are making does not violate some other constraint associated with the target key. For example, if the target key has a "fixed permission (i.e., a permission that is permanently granted by the Key Maker), you cannot change it, but you *can* change the keys "modifiable permission(s)." Note that permissions are modified only on the lock at which the changes were made. Also, you cannot grant permissions that you don't have.

Modifying Administration Authority Levels

If your key's Key Administration Authority is higher than the Key Level of another key, you can change that key's Key Administration Authority. You cannot, however, grant any key a Key Administration Authority higher than that key's Maximum Key Administration Authority.

For example, you can change a target key's Key Administration Authority, but you *cannot* make it greater than the target key's Maximum Key Administration Authority.

Exceptional Keys

Some keys have different Key Levels and Enrollment Levels. You can enroll such a key, even if its Key Level is higher than yours, so long as your Key Administration Authority is higher than its Enrollment Level. Unless your Key Administration Authority is higher than the exceptional key's Key Level, you will not have Key Administration Authority over the new key, even though you enrolled it.

Example: The following table illustrates the levels assigned to three different types of keys.

Job Title	Key Holder's Name	Key Level	Enrollment Level	Key Administration Authority	Maximum Administration Authority
Worker	Type 3	30	30	20	30
Store Mgr	Type 2	50	50	45	45
District Mgr	Type 1	80	30	75	80

Inferences

A Type 2 key can enroll a Type 1 or Type 3 key, because its Key Administration Authority (45) is higher than Type 1 or 3's Enrollment Level (30).

A Type 2 key *cannot* enroll another Type 2 key, because its Key Administration Authority (45) is lower than its Enrollment Level (50).

A Type 2 key (with appropriate permissions) can change the permissions of a Type 3 key because its Key Administration Authority (45) is higher than Type 3's Key Level (30).

A Type 1 key (with appropriate permissions) can change the permissions of Type 2 and Type 3 keys because its Key Administration Authority (75) is *higher* than the Key levels of either Type 2 or 3 keys (30 and 50). A Type 1 key cannot, however, change its own permissions, because its Key Administration Authority (75) is *lower* than its Key Level (80).

Enrolling a New Key

You use the “enrollment” process to

- make a key function in the Vindicator Lock
- modify the key holder’s name
- modify the key holder’s employee identification number (employee ID)
- modify the key holder’s personal identification number (PIN)

To enroll a key

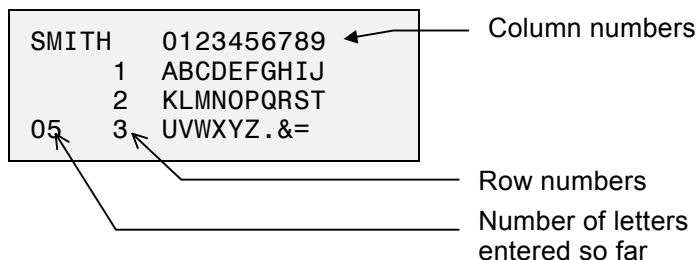
You Do this	The Vindicator Lock Does This
1. Start from the KEY menu (see page 4 for instructions.).	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENROLL MODIFY DEACTIVATE REPAIR </div>
2. Select ENROLL	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Present target key </div>
3. Present the key	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Enter employee ID number: _____ </div>
4. Enter the employee ID and press SEL. Press SEL again to skip the help screen.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> SMITH 0123456789 1 ABCDEFGHIJ 2 KLMNOPQRST 05 3 UVWXYZ </div>
5. Enter employee’s name. (See pg.10 for detailed instructions)	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Please enter a temporary PIN: ESC=no change. </div>
6. Enter a temporary PIN.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Please present target key again </div>
7. Present the key. It is automatically enrolled, the “Done” message appears, and then the Key menu reappears.	<div style="border: 1px solid black; padding: 5px; text-align: center;"> ENROLL MODIFY DEACTIVATE REPAIR </div>

Entering an Employee's Name

Since there are no letters on the Vindicator Lock II front panel, you have to enter numbers to get the letters of a person's name. Every letter is represented by a 2-digit number. A key holder's name can be no longer than 10 letters.

To enter a name

1. Enter each letter by entering both the row number and the column number associated with the letters. These numbers are pointed out below.



Example To enter the name "SMITH" you

1. Enter 28 for the 'S' (2nd row, 8th column)
2. Enter 22 for the 'M' (2nd row, 2nd column)
3. Enter 18 for the 'I' (1st row, 8th column)
4. Enter 29 for the 'T' (2nd row, 9th column)
5. Enter 17 for the 'H' (1st row, 7th column).

Each time you successfully enter a new character it appears in the upper left corner of the screen. Because you can't see more than 5 characters, the actual number of characters you enter is displayed in the lower-left corner. In the illustration above, all 5 characters of "SMITH" have been entered successfully.

Fixing incorrect letters

If you enter an incorrect letter (or if the screen shows other characters in the upper-left corner, press DEL to remove the wrong character(s) one by one.

2. Press SEL *only* when you've finished.

Deactivating Keys

To deactivate a key when the key is available

You Do this	The Vindicator Lock Does This
<p>1. Start from the Key menu (see page 4).</p>	<div style="border: 1px solid black; padding: 5px;"> <p>ENROLL MODIFY DEACTIVATE REPAIR</p> </div>
<p>2. Select DEACTIVATE</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Specify key: BY KEY FROM DATABASE</p> </div>
<p>3. Select BY KEY.</p> <p>If you want to go through the database, read the section on deactivating a key when the key is not available (following).</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Present the key or enter a key number: _____</p> </div>
<p>4. Present the key. The key is deactivated, the “Done” message shows and then the previous menu choice appears. Press ESC when you are finished.</p> <p>If you enter the key number instead of presenting the key, the Vindicator Lock shows the key data for that key. Pressing SEL deactivates the key; pressing ESC causes the key’s activation to remain unchanged.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>ENROLL MODIFY DEACTIVATE REPAIR</p> </div>

To deactivate a key when the key is *not* available

If the key you want to deactivate is not available, you can deactivate it from the database.

You Do this	The Vindicator Lock Does This
1. Start from the Key menu (see page 4).	<div style="border: 1px solid black; padding: 5px;"> ENROLL MODIFY DEACTIVATE REPAIR </div>
2. Select DEACTIVATE	<div style="border: 1px solid black; padding: 5px;"> Specify key: BY KEY FROM DATABASE </div>
3. Select FROM DATABASE	<div style="border: 1px solid black; padding: 5px;"> Name: XXXXXXXXXXXX ID: 0000000000 Key: 000000 L:00 Stat: XXXXXXXXXX </div>
4. Use the ↑ and ↓ keys to scroll through the database until you find the key you want to deactivate. Press SEL.	<div style="border: 1px solid black; padding: 5px;"> SEL to deact. NAME: ID: 0000000000 KEY: 0000000 L:00 </div>
5. If this is the correct key, press SEL to deactivate it. The “Done” message appears, and the key is deactivated.	<div style="border: 1px solid black; padding: 5px;"> ENROLL MODIFY DEACTIVATE REPAIR </div>

Modifying Keys

You use the MODIFY option from the Keys menu to reset a keys usage count, or to change:

- a keyholder's name,
- user ID
- permissions
- target-key administration authority
- usage limit
- automatic deactivation date

You can also assign a temporary PIN after making changes such as these.

To change a keyholder's name or user ID, you modify the key.

The procedure for modifying a key is much the same as that for enrolling a new key (see Enrolling a New Key on page 10. The *difference* is that when you are modifying a key, the data you would have to enter for a new key is already there.

To accept the information that is already there, press SEL. To change it, enter new information and then press SEL.

Press SEL to leave the current data unchanged. Enter new data when you want to make a change, and then press SEL.

Changing Key Permissions

You may change the Permissions for a key if your key has sufficient authority. You cannot grant Permissions that your key does not already have. Also, you cannot modify Permissions that have been set as unmodifiable at the factory. You do not need to have the key available to make these changes.

To modify key Permissions

You Do this	The Vindicator Lock Does This
<p>1. Select MODIFY from the KEYS menu</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Specify key:</p> <p>BY KEY FROM DATABASE</p> </div>
<p>2. Select BY KEY if you have the key with you now. Select FROM DATABASE if you do not have the key with you now.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modify:</p> <p>KEY DATA PERMISSIONS</p> </div>
<p>3. Select PERMISSIONS. Press SEL after each permission screen is correct. Press ESC to exit the permissions sequence.</p> <p>If you select FROM DATABASE, you will have to scroll through the database to find the key you want. Use the ↓ and ↓ keys to move through the database. When the correct key appears, press SEL.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Unlock door #. NO YES</p> </div>

Changing Key Administration Authority

You can change the Key Administration Authority for a key, but you cannot grant a Key Administration Authority level higher than the target key's Maximum Key Administration Authority (which is set at the factory).

You Do this	The Vindicator Lock Does This
<p>1. Select MODIFY from the KEYS menu</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Specify key:</p> <p>BY KEY FROM DATABASE</p> </div>
<p>2. Select BY KEY if you have the key with you now. Select FROM DATABASE if you do not have the key with you now.</p> <p>If you select FROM DATABASE, you will have to scroll through the database to find the key you want. Use the ↑ and ↓ keys to move through the database. When the correct key appears, press SEL.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modify:</p> <p>KEY DATA PERMISSIONS</p> </div>
<p>3. Select KEY DATA. Press SEL after each permission screen is correct. Press ESC to exit the permissions sequence.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Modify:</p> <p>KEY DATA PERMISSIONS</p> </div>

Repairing Keys

On rare occasions the information inside a key gets so scrambled that the Vindicator Lock cannot use the key. When this happens, the lock displays the message **Error Reading Key**. Although you may often see this message, when the key is damaged the message will not go away, no matter how long you press the key to the key receptacle.

You can usually repair a damaged key at the Vindicator Lock II where it is supposed to be enrolled.

You do this	The Vindicator Lock Does This
1. Select REPAIR from the KEYS menu	Present key to be repaired.
2. Present the damaged key.	Please present key being repaired again.
3. If the key <i>can</i> be repaired, you get 2 beeps. If the key <i>cannot</i> be repaired, you get 3 beeps. The “Done” message appears and then the KEYS menu reappears.	ENROLL MODIFY DEACTIVATE REPAIR

Running Reports

This chapter explains how to get History and Database reports and how to interpret them. It covers the following topics:

- Printing History Reports
- Interpreting History Reports
- Displaying History Information on the Screen
- Printing Database Reports
- Interpreting Database Reports
- Displaying Key Information on the Screen

A History Report lists what has occurred (including things people tried to do, but failed) at the safe. This section explains how you can get these reports and how to read them.

Before you start

The Vindicator Lock II can remember 4700 events. After storing 4700 events, memory runs out and the lock starts erasing the record of one event for each new one that occurs. It erases the old records first.

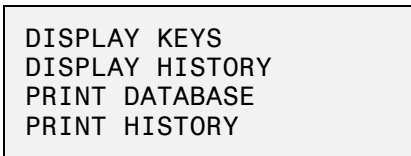
If it is important that you have a printed record of *all* events, you should make sure that reports are printed on a regular basis and that the period of time between printings is frequent enough that you will not lose any information.

Printing History Reports

To print a History Report:

1. Select REPORTS from the ADMINISTRATION menu.

The Reports menu appears.



```
DISPLAY KEYS
DISPLAY HISTORY
PRINT DATABASE
PRINT HISTORY
```

2. Select the type of report you want and whether you want it printed or displayed on the lock's screen.

Interpreting Printed History

The Vindicator Lock II report lists the date, time, key number, and the employee ID for most events.

Report Organization

The events are organized by date. If you don't see a particular date on the report, nothing happened that day.

The report is further organized by log ins. That means that if you log in, open the outer door, and then close it, (2 events — the first is opening; the second is closing) your name, key number and employee ID only get printed once.

Indented Lines

If everything but the time is indented 2 spaces, it means that that line is about a *target key*.

Example On November 24, 1992 Bob Smith enrolled a new key for Sam Jones (#000107). This event occurred at 14:52 hours (that's 2:52 p.m.). When Bob presented his key a record was made of the event ("Log in"). When he enrolled Sam's key, Sam's Key No., Employee ID, Name, and Event-Description were recorded, but all the columns are indented 2 spaces when the report is printed.

Unrecorded Events

Some events, such as opening a door, log you out automatically. These log outs are not recorded. All other logouts are recorded. (See the *Operator's Guide* for definitions of "logging in" and "logging out.")

Question Marks

A question mark indicates that the Vindicator Lock II doesn't know who did it — only that it was done. For example, anyone could have walked by and closed the door.

The question mark may also indicate an event for a key that is no longer enrolled. This situation is unusual, occurring only if you have re-used more than 60 keys since the last time the database was initialized.

Vindicator Lock History Report					
Location: 1234567890					
12/20/94 15:36					
Date	Time	Key-No	Employee-ID	Name	Event-Description
11/24/94					
	10:06	000109	999115522	J WATSON	Log in
	10:06	000109	999115522	J WATSON	Opened OUTER 1
	10:07			?	Closed OUTER 1
	10:22	000106	666224444	BOB SMITH	Log in
	10:22	000106	666224444	BOB SMITH	Started delay
	10:33	000109	999115522	J WATSON	Log in
	10:33	000109	999115522	J WATSON	Opened OUTER 1
	10:33			J WATSON	Opened INNER 1
	10:35			?	Closed INNER 1
	10:35			?	Closed OUTER 1
	11:23	310018	333881181	KAY WILSON	Log in
	11:23	310018	333881181	KAY WILSON	Opened OUTER 1
	11:33			?	Held Door: Warning
	11:34			?	CLOSED OUTER 1
	13:45	000106	666224444	BOB SMITH	Log in
	13:45	000106	666224444	BOB SMITH	Opened OUTER 1
	13:46			?	Closed OUTER 1
	14:52	000106	666224444	BOB SMITH	Log in
	14:52	000107	777224444	SAM JONES	Target-key ID
	14:52	000107	777224444	SAM JONES	Changed employee ID
	14:52	000107	777224444	SAM JONES	Changed name
	14:52	000107	777224444	SAM JONES	Set temporary PIN
	14:53	000107	777224444	SAM JONES	Enrolled key
	14:53	000107	777224444	SAM JONES	Updated key
	14:53	000106	666224444	BOB SMITH	ESC-out
	17:22	310018	333881181	KAY WILSON	Log in
	17:22	310018	333881181	KAY WILSON	Duress-PIN entered
	17:22	310018	333881181	KAY WILSON	Opened OUTER 1
	17:29			?	Closed OUTER 1
11/25/94					
	06:12	000106	666224444	BOB SMITH	Log in
	06:12	000106	666224444	BOB SMITH	Opened ENTRY 1
	06:45	000109	999115522	J WATSON	Log in
	06:45	000109	999115522	J WATSON	Opened OUTER 1
	06:53			?	Closed OUTER 1
... etc.					
** end of Vindicator Lock VLSV0400EN02C2 history report					

Figure 2. Sample History Report

Displaying History Reports

Each time you request a History Report you have the option of viewing it on the screen instead of on paper. To make the information fit, the Vindicator Lock II shows one event at a time. An asterisk appears to the left of the employee name if the event involves a target key.

Events are arranged as shown below. The example is for an event that involved a target key.

```
mm/dd*empl-name  
hh:mm employee ID  
Description of  
the event
```

To move from one screen to the next

Press the SEL or ↓ key.

Note You can not go back to an earlier event.

To terminate the report display

Press ESC.

Event Type Listing — By Name

The following table shows all the types of events that the Vindicator Lock II reports. This table is arranged alphabetically — a numerically sorted one appears later.

The event type numbers never appear on the display or on printed reports. But you might, for example, want to print a report of all the events where a Timelock Override key was used. To print such a report, you will need to have the event type number.

When someone had to go through the ADMINISTRATION menu to cause an event, the menu choices that were made appear in parenthesis at the end of the event description.

Event Name	Event No.	Comments
Additional info	123	Additional information used by a 122 deposit entry.
Armed alarm panel.	124.	
Auto-deactivated a key.	113.	
Auto-deactivated idle key.	114.	
Auto-disarm	78.	The alarm panel was automatically disabled.
Auto-rearm	79.	The alarm panel was automatically enabled.
Bad company	6.	A log in was attempted with a key which has the wrong company code or key series.
Canceled delay	66.	The ESC key was pressed during a delay interval.
Changed access parameter. (door)	70.	Some access parameters associated with a lock were changed. The number shown is the affected door's door-number.
Changed company code	106.	
Changed employee ID	48.	
Changed fall date (date)	95.	
Changed holiday.	102.	
Changed idle-key-life.	103.	
Changed key administration authority	44.	
Changed key series	84.	
Changed location code	21.	
Changed min-max-key-level	22.	

Event Name	Event No.	Comments
Changed name	47.	
Changed PIN	16.	A PIN change was requested. Presumed successful unless followed by “Failed PIN Change.”
Changed PIN-life	20.	
Changed pin-reject-mode.	110.	
Changed spring date (date)	94.	
Closed door (door)	72.	
Deactivated absent key	42.	The key was marked as “inactive” in the key database, but the key itself still contains the location code.
Deactivated present key	43.	The key was marked as “inactive” in the key database, and the location code was erased from the key. This key can now be enrolled at another location.
Delay started	15.	Time shown is the beginning of a programmed delay interval.
Deposit	122.	
Disabled day (dow, door)	58.	The ability to open the relevant lock on the specified day of the week (dow) was removed. The relevant lock is specified in an earlier “Timelock n change” event.
Disabled delay-interval-count-up.	109.	
Disabled deposit-logging.	105.	
Disabled diagnostic mode.	117.	
Disabled duress PIN	39.	The ability to accept Duress PINs was turned off.
Disabled European date format	93.	
Disabled lost key override	37.	The ability to log in using a Lost Key Override Code was turned off.
Disabled PIN entry	101.	
Disabled PIN-reject	33.	Automatic deactivation of keys after a defined number of failed log in attempts was turned off.
Disabled remote enroll	99.	
Disabled timelock early	91.	

Event Name	Event No.	Comments
Disabled timelock override for outer doors	31.	The ability to use a second key to override a time lock was turned off.
Disarmed alarm panel.	125.	
Displayed database	26.	
Duress-PIN entered	55.	A Duress PIN was entered. The key id shown is for the key corresponding to the PIN. This is not necessarily the logged-in key, as a Duress-PIN may be used by a different key to open the door during the Access-Interval of a Delayed-Access-Sequence.
Enabled day (dow, door)	57.	The ability to open the relevant lock on the specified day of the week (dow) was added. The relevant lock is specified in an earlier “Timelock n change” event.
Enabled delay-interval-count-up.	108.	
Enabled deposit-logging.	104.	
Enabled diagnostic mode.	116.	
Enabled duress PIN	38.	The ability to accept Duress PINs was turned on.
Enabled European date format	92.	
Enabled lost key override	36.	The ability to log in using a Lost Key Override Code was turned on.
Enabled PIN entry	100.	
Enabled PIN-reject	32.	Automatic deactivation of keys after a defined number of failed log in attempts was turned on.
Enabled remote enroll	98.	
Enabled timelock early	90.	
Enabled timelock override for outer doors	30.	The ability to use a second key to override a time lock was turned on.
Enroll/Modify-fail: insuf. auth.	46.	The logged-in key has insufficient Key Administration Authority to enroll or modify the target key.
Enrolled key	45.	A key was enrolled and updated successfully.
Enrollment canceled.	112.	
ESC-out	14.	The keyholder logged out voluntarily by pressing ESC. This message appears if a key was logged in but no other event was logged.

Event Name	Event No.	Comments
Exit sensor	107.	
Expired PIN	9.	The user was forced to enter a new PIN. Presumed successful unless followed by “Failed PIN-Change.”
Failed PIN-change	10.	The number entered for a new PIN was not the same as the number entered to confirm the new PIN. Try again.
Forced door, alarm	69.	
Forced entry door, alarm	23.	
FP comm failed	119.	Communications between the Logic Board and the Front Panel failed.
FP Comm restored	120.	Communications between the Logic Board and the Front Panel were restored.
FP operator force logged-out PC.	111.	
Granted permission	52.	A permission (identified by its permission index number) was granted. (See “Target Key ID.”)
Held door, alarm	18.	The Warning Interval (see <i>Setting Access Parameters</i> on page 51 for a definition of the warning interval) expired before a door was closed. An alarm was signaled.
Held door, warning	17.	The Access Interval (see <i>Setting Access Parameters</i> on page 51 for a definition of the access interval) expired before a door was closed.
Held Entry door, alarm	83.	The Entry door was held open past the length of time specified in the Access Interval and the Warning Interval expired before the door was closed. An alarm was signaled.
Held Entry door, warning	82.	The Entry door was opened outside specified business hours and held open past the length of time specified in the Access Interval.
Initialized database	68.	The key database was erased (except for the logged-in key). This action requires a factory key.
Initialized history	67.	The history database was erased. This action requires a factory key.
Log in	1.	A log in occurred
Log in fail: bad PIN	4.	A keyholder entered a wrong PIN 3 times and the log in was terminated.

Event Name	Event No.	Comments
Log in fail: corrupted	3.	A key with a known serial number was presented; however, other data in the key does not match up. The log in was terminated. This key will have to be “re-made” in a Keymaker before it will be useable again.
Log in fail: Inactive	12.	A log in was attempted with an inactive key.
Log in fail: PIN-reject	5.	A keyholder entered the wrong PIN too many times and the lock has taken the appropriate rejection action, (deactivation or delay.)
Lost key override used	11.	A lost-key override combination number was used to log in.
New date	54.	Pseudoevent
New end (door, interval, dow, time)	61.	A new time for the end of an openable interval for the relevant lock was specified. The relevant lock is specified in an earlier “Timelock n change” event.
New start (door, interval, dow, time)	60.	A new time for the start of an openable interval for the relevant lock was specified. The relevant lock is specified in an earlier “Timelock n change” event.
Opened door (door)	71.	
Override key	2.	This event is recorded whether or not the second key is presented. It is sort of a partial log in. The key id is that of first key. The key id associated with subsequent events is the key id of the second key. Thus, subsequent events reveal actions that possibly could not have been performed in the absence of the first key.
PC log in.	115.	
Printed database	25.	
Printed history	24.	
Reset	64.	
Revoked permission	53.	A permission (identified by its permission index number) has been revoked. (See “Target Key ID.”)
Set date	29.	Followed by “New date.” The date of the event is the date on which a keyholder made a date change.

Event Name	Event No.	Comments
Set temporary PIN	49.	This is a PIN change performed by a keyholder other than the holder of the key whose PIN is being changed.
Set time	28.	The time indicated is the new time.
Target-key ID	51.	Pseudo event
Timelock change	73.	This 'event' merely introduces subsequent details. See events 57 through 61.
Timelocked early	19.	Safe was placed in timelock ahead of schedule.
Timeout	13.	The keyholder was logged out automatically because no key was pressed during a 30 second interval.
Unknown key, bad PIN	8.	A log in was attempted with an unknown key and the PIN was also unknown.
Unknown key, good PIN	7.	A log in was attempted with an unknown key, but the PIN is known to the lock.
Unused	27.	
unused	65.	
unused	74.	
unused	80.	
unused	81.	
unused	85–89	
unused	96,97	
unused	118.	
Unused	121.	
Updated key	50.	The data in the key was rewritten.

Event Type Listing — By Number

Event No.	Event Name	Comments
1.	Log in	A log in occurred.
2.	Override key	This event is recorded whether or not the second key is presented. It is sort of a partial log in. The key id number is that of first key. The key id associated with subsequent events is the key id of the second key. Thus, subsequent events reveal actions that possibly could not have been performed in the absence of the first key.
3.	Log in fail: corrupted	A key with a known serial number was presented; however, other data in the key does not match up. The log in was terminated. This key will have to be “re-made” in a Keymaker before it will be useable again.
4.	Log in fail: bad PIN	A keyholder entered a wrong PIN 3 times and the log in was terminated.
5.	Log in fail: PIN-reject	A keyholder entered the wrong PIN too many times and the lock has taken the appropriate rejection action, (deactivation or delay.)
6.	Bad company	A log in was attempted with a key which has the wrong company code or key series.
7.	Unknown key, good PIN	A log in was attempted with an unknown key, but the PIN is known to the lock.
8.	Unknown key, bad PIN	A log in was attempted with an unknown key and the PIN was also unknown.
9.	Expired PIN	The user was forced to enter a new PIN. Presumed successful unless followed by “Failed PIN-Change.”
10.	Failed PIN-change	The number entered for a new PIN was not the same as the number entered to confirm the new PIN. Try again.
11.	Lost key override used	A lost-key override combination number was used to log in.
12.	Log in fail: Inactive	A log in was attempted with an inactive key.
13.	Timeout	The keyholder was logged out automatically because no key was pressed during a 30 second interval.
14.	ESC-out	The keyholder logged out voluntarily by pressing ESC. This message appears if a key was logged in but no other event was logged.
15.	Delay started	Time shown is the beginning of a programmed delay interval.

Event No.	Event Name	Comments
16.	Changed PIN	A PIN change was requested. Presumed successful unless followed by “Failed PIN Change.”
17.	Held door, warning	The Access Interval (see <i>Setting Access</i> Parameters on page 51 for a definition of the access interval) expired before a door was closed.
18.	Held door, alarm	The Warning Interval (see <i>Setting Access</i> Parameters on page 51 for a definition of the warning interval) expired before a door was closed. An alarm was signaled.
19.	Timelocked early	Safe was placed in timelock ahead of schedule.
20.	Changed PIN-life	
21.	Changed location code	
22.	Changed min-max-key-level	
23.	Forced entry door, alarm	
24.	Printed history	
25.	Printed database	
26.	Displayed database	
27.	Unused	
28.	Set time	The time indicated is the new time.
29.	Set date	Followed by “New date.” The date of the event is the date on which a keyholder made a date change.
30.	Enabled timelock override for outer doors	The ability to use a second key to override a time lock was turned on.
31.	Disabled timelock override for outer doors	The ability to use a second key to override a time lock was turned off.
32.	Enabled PIN-reject	Automatic deactivation of keys after a defined number of failed log in attempts was turned on.
33.	Disabled PIN-reject	Automatic deactivation of keys after a defined number of failed log in attempts was turned off.
36.	Enabled lost key override	The ability to log in using a Lost Key Override Code was turned on.
37.	Disabled lost key override	The ability to log in using a Lost Key Override Code was turned off.
38.	Enabled duress PIN	The ability to accept Duress PINs was turned on.
39.	Disabled duress PIN	The ability to accept Duress PINs was turned off.

Event No.	Event Name	Comments
42.	Deactivated absent key	The key was marked as “inactive” in the key database, but the key itself still contains the location code.
43.	Deactivated present key	The key was marked as “inactive” in the key database, and the location code was erased from the key. This key can now be enrolled at another location.
44.	Changed key administration authority	
45.	Enrolled key	A key was enrolled and updated successfully.
46.	Enroll/Modify-fail: insuf. auth.	The logged-in key has insufficient Key Administration Authority to enroll or modify the target key.
47.	Changed name	
48.	Changed employee ID	
49.	Set temporary PIN	This is a PIN change performed by a keyholder other than the holder of the key whose PIN is being changed.
50.	Updated key	The data in the key was rewritten.
51.	Target-key ID	Pseudoevent
52.	Granted permission	A permission (identified by its permission index number) was granted. (See “Target Key ID.”)
53.	Revoked permission	A permission (identified by its permission index number) has been revoked. (See “Target Key ID.”)
54.	New date	Pseudoevent
55.	Duress-PIN entered	A Duress PIN was entered. The key id shown is for the key corresponding to the PIN. This is not necessarily the logged-in key, as a Duress-PIN may be used by a different key to open the door during the Access-Interval of a Delayed-Access-Sequence.
57.	Enabled day (dow, door)	The ability to open the relevant lock on the specified day of the week (dow) was added. The relevant lock is specified in an earlier “Timelock n change” event.
58.	Disabled day (dow, door)	The ability to open the relevant lock on the specified day of the week (dow) was removed. The relevant lock is specified in an earlier “Timelock n change” event.
60.	New start (door, interval, dow, time)	A new time for the start of an openable interval for the relevant lock was specified. The relevant lock is specified in an earlier “Timelock n change” event.

Event No.	Event Name	Comments
61.	New end (door, interval, dow, time)	A new time for the end of an openable interval for the relevant lock was specified. The relevant lock is specified in an earlier “Timelock n change” event.
64.	Reset	
65.	unused	
66.	Canceled delay	The ESC key was pressed during a delay interval.
67.	Initialized history	The history database was erased. This action requires a factory key.
68.	Initialized database	The key database was erased (except for the logged-in key). This action requires a factory key.
69.	Forced door, alarm	
70.	Changed access parameter. (door)	Some access parameters associated with a lock were changed. The number shown is the affected door’s door-number.
71.	Opened door (door)	
72.	Closed door (door)	
73.	Timelock change	This ‘event’ merely introduces subsequent details. See events 62 through 66.
74.	unused	
78.	Auto-disarm	The alarm panel was automatically disabled.
79.	Auto-rearm	The alarm panel was automatically enabled.
80.	unused	
81.	unused	
82.	Held Entry door, warning	The Entry door was opened outside specified business hours and held open past the length of time specified in the Access Interval.
83.	Held Entry door, alarm	The Entry door was held open past the length of time specified in the Access Interval and the Warning Interval expired before the door was closed. An alarm was signaled.
84.	Changed key series	
85–89	unused	
90.	Enabled timelock early	
91.	Disabled timelock early	
92.	Enabled European date format	

Event No.	Event Name	Comments
93.	Disabled European date format	
94.	Changed spring date (date)	
95.	Changed fall date (date)	
96,97	unused	
98.	Enabled remote enroll	
99.	Disabled remote enroll	
100.	Enabled PIN entry	
101.	Disabled PIN entry	
102.	Changed holiday.	
103.	Changed idle-key-life.	
104.	Enabled deposit-logging.	
105.	Disabled deposit-logging.	
106.	Changed company code	
107.	Exit sensor	
108.	Enabled delay-interval-count-up.	
109.	Disabled delay-interval-count-up.	
110.	Changed pin-reject-mode.	
111.	FP operator force logged-out PC.	
112.	Enrollment canceled.	
113.	Auto-deactivated a key.	
114.	Auto-deactivated idle key.	
115.	PC log in.	
116.	Enabled diagnostic mode.	
117.	Disabled diagnostic mode.	
118.	unused	
119.	FP comm failed	Communications between the Logic Board and the Front Panel failed.
120.	FP Comm restored	Communications between the Logic Board and the Front Panel were restored.
121.	Unused	

Event No.	Event Name	Comments
122.	Deposit	
123	Additional info	Additional information used by a 122 deposit entry.
124.	Armed alarm panel.	
125.	Disarmed alarm panel.	

Getting a Database Report

The Vindicator Lock II maintains information about keys, keyholders, and operating rules by storing it in what is called a “database.” The database is just a way of organizing this information so that the Vindicator Lock II can retrieve it quickly, upon demand. The database contains

- keys and key information
- key permissions
- access parameters (the operating rules for the safe, i.e., who can open which doors and when).

To Print the Contents of the Database

To print the contents of this database

1. Select REPORTS from the ADMINISTRATION menu.

The Reports menu appears.

```
DISPLAY KEYS
DISPLAY HISTORY
PRINT DATABASE
PRINT HISTORY
```

2. Select PRINT DATABASE.

The Vindicator Lock tells you to prepare the printer.

3. Make sure there is paper and that the printer is “on-line.”

The report is printed.

To Display the Database

To display the contents of the database

1. Select REPORTS from the ADMINISTRATION menu.

The Reports menu appears.

```
DISPLAY KEYS
DISPLAY HISTORY
PRINT DATABASE
PRINT HISTORY
```

2. Select DISPLAY KEYS.

3. Define the range of information to be shown.

The first item in the database appears. Use the ↑ and ↓ keys to move through the database.

Interpreting Database Reports

The database report contains information about keys, permissions, and the locks setup.

First Section

The first section of the Vindicator Lock II database report shows the keys contained in the Vindicator Lock's database. Each section starts on a new page. The keys are grouped according to type — Active, Inactive, or Unknown.

- Active keys are able to perform whatever functions are defined by their Permissions.
- Inactive keys are unable to perform any actions.
- Unknown keys have never been used in this particular Vindicator Lock. However, someone did try to log in using this key on the date shown.

Organization

The key listing shows:

- user_name: employee's name
- id#: Employee ID number
- key-no: Key number
- serial-no: Key's serial number
- key-level: Key's Key Level
- enr1-level: Key's Enrollment Level
- admin-auth: Key's Administration Authority
- max-auth: Maximum Administration Authority for this key
- Loc-restr: Number of digits of the location code which must match in both key and safe in order for the key to be used.
- key_type defined for your organization
- date-changed: date any change was made to this key (01/01/92=none)
- status: enrolled, inactive, or unknown
- use-limit: number of times key may be used (if limited)
- use-count: number of times key has been used (if use-limit non-zero)
- auto-deact: automatic deactivation date (01/01/92=none)
- log in: date of last log in (01/01/92=none recorded)

The information in the key listing is organized in groups of lines. Read it left-to-right, then top-to-bottom. The first section of a typical report is shown here.

```

Vindicator Lock II Database Report
Location: 1234567890
06/27/94 15:05

Active Keys:

user_name: FACTORY      id#: 0000000011  key-no: 000001  serial-no:
D93A15000000
key-level: 99  enrl-level: 99      admin-auth: 98      max-auth: 99
loc-restr: 0   key_type: 1      date-changed: 01/01/92  status: ENROLLED
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 06/27/94

user_name: AVERY       id#: 0000000206  key-no: 000206  serial-no:
67A315000000
key-level: 70  enrl-level: 30      admin-auth: 70      max-auth: 75
loc-restr: 0   key_type: 2      date-changed: 05/25/94  status: ENROLLED
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 05/25/94

user_name: BARRY       id#: 0000000204  key-no: 000204  serial-no:
D99F15000000
key-level: 30  enrl-level: 40      admin-auth: 29      max-auth: 40
loc-restr: 10  key_type: 4      date-changed: 06/21/94  status: ENROLLED
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 06/20/94

user_name: CARLA       id#: 0000000205  key-no: 000205  serial-no:
3EA315000000
key-level: 25  enrl-level: 30      admin-auth: 24      max-auth: 40
loc-restr: 10  key_type: 5      date-changed: 06/21/94  status: ENROLLED
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 06/21/94

user_name: DENSON      id#: 0000000033  key-no: 000003  serial-no:
C88A0F000000
key-level: 80  enrl-level: 70      admin-auth: 70      max-auth: 85
loc-restr: 0   key_type: 0      date-changed: 06/22/94  status: ENROLLED
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 06/23/94

Inactive Keys:

user_name: RALPH       id#: 0000000202  key-no: 000202  serial-no:
CC3915000000
key-level: 35  enrl-level: 35      admin-auth: 20      max-auth: 25
loc-restr: 10  key_type: 2      date-changed: 03/18/94  status: INACTIVE
use-limit: 5   use-count: 5      auto-deact: 01/01/92  log in: 05/29/94

user_name: NORTON      id#: 0000000203  key-no: 000203  serial-no:
000000000000
key-level: 55  enrl-level: 50      admin-auth: 55      max-auth: 55
loc-restr: 8   key_type: 3      date-changed: 06/22/94  status: INACTIVE
use-limit: 0   use-count: 0      auto-deact: 01/01/92  log in: 06/22/94

Unknown Keys:
user_name: EGBERT      id#: 0000000509  key-no: 000666  serial-no:
5A2970000000
key-level: 44  enrl-level: 40      admin-auth: 50      max-auth: 55
loc-restr: 0   key_type: 2      date-changed: 06/22/94  status: INACTIVE
use-limit: 0   use-count: 0      auto-deact: 06/24/95  log in: 06/22/94

```

Figure 3. Sample Database Report

Third Section

The third section contains information about how the Vindicator Lock II has been set up. It is divided into three subsections.

The first subsection describes the doors. It contains

- door numbers, types, and named number
- delay interval
- access interval
- warning interval
- which door this door is behind (if any)
- sensor number associated with this door
- solenoid number associated with this door.

```
Doors:

Door-Access Parameters (Time-Intervals in minutes) (0 means
'NONE') :

# door      delay access warning behind sensor solenoid
1 OUTER    1     0     2     2     0     1     1
2 OUTER    2     0     1     1     0     2     2
3 INNER    1     0     1     1     1     3     3
4 INNER    2     0     1     1     2     4     4
5 ENTRY    1     0     1     1     0     5     0
```

The second subsection shows how the timelocks are set for each door on the safe. All times are printed in 24-hour format.

```
Timelock Openable-Intervals:

OUTER      1
SUN        MON        TUE        WED        THU        FRI        SAT        HOL
start: 08:00 08:00 08:00 08:00 08:00 08:00 08:00
end: 20:00 20:00 20:00 20:00 20:00 20:00 20:00

OUTER      2
SUN        MON        TUE        WED        THU        FRI        SAT        HOL
start: 00:00 00:00 00:00 00:00 00:00 00:00 00:00
end: 00:00 00:00 00:00 00:00 00:00 00:00 00:00

INNER      1
SUN        MON        TUE        WED        THU        FRI        SAT        HOL
start: 00:00 00:00 00:00 00:00 00:00 00:00 00:00
end: 00:00 00:00 00:00 00:00 00:00 00:00 00:00

INNER      2
SUN        MON        TUE        WED        THU        FRI        SAT        HOL
start: 00:00 00:00 00:00 00:00 00:00 00:00 00:00
end: 00:00 00:00 00:00 00:00 00:00 00:00 00:00

ENTRY      1
SUN        MON        TUE        WED        THU        FRI        SAT        HOL
start: 00:00 00:00 00:00 00:00 00:00 12:15 00:00
end: 00:00 00:00 00:00 00:00 00:00 12:17 00:00
```

The third subsection lists miscellaneous options for your Vindicator Lock II and shows how they are currently set.

```
Parameters:
Company code:          5480
Key series:           1
Holiday:              01/01/94
Holiday:              02/21/94
Holiday:              09/05/94
Holiday:              11/11/94
Holiday:              01/24/94
Holiday:              12/25/94
Holiday:              01/01/92
Holiday:              01/01/92
Spring fwd date:     06/15/94
Fall back date:      06/16/94
Min-max key level:   90
Delay count:         UP
Access beep:         ENABLED
Remote enrollment:   DISABLED
Log deposits:        ENABLED
Comm device:         PRINTER
Comm baud rate:      9600
PIN entry:           REQUIRED
Duress-PIN mode:     +/-5
PIN life (days):    0
Idle key life (days): 0
PIN reject mode:     LOG IN DELAY
PIN reject limit:    0
Log in delay (min):  5
Lost key override:   ENABLED
Outer DoorTimelock override: ENABLED
Timelock Early:     ENABLED
European Date Format: ENABLED
Idling text:         Vindicator Lock
Modem init string:   ATE0Q1L3M3&M0&D0&C1S0=1&W

*** end of Vindicator Lock II 4.00 Database report ***
```

Permission Numbers

The following list explains the permission numbers that are referred to in the “Revoked permission” and “Granted permission” event descriptions. Text in the Permission column is the same as that displayed by the Vindicator Lock II. Some words are abbreviated so that the message can fit the display.

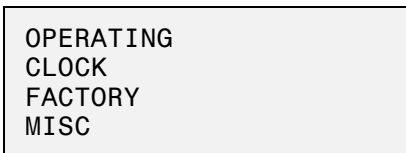
No.	Permission	Explanation
1.	Unlock door.1	
2.	Unlock door 2.	
3.	Unlock door 3.	
4.	Unlock door 4 .	
5.	Unlock door 5	
6.	Unlock door 6.	
7.	Unlock door 7.	
8.	Unlock door 8.	
9.	Reserved for future use.	
10.	Print history.	
11.	Display history.	
12.	Print database.	
13.	Display database	
14.	Adjust time for Daylite Savings.	The permission to switch the lock’s internal clock to and from Daylight Savings Time is separate from the permission to set the time because it compromises timelock security much less.
15.	Set outer door access params.	Access parameters include time intervals for delay, access (during which door may be open), and open-warning (when door is open past legitimate access interval).
16.	Set inner door access params.	See above.
17.	Set outer door openable intrvls	The openable intervals for a door are the actual timelock settings. This permission also includes the ability to set the openable days.
18.	Set inner door openable intrvls	See above.
19.	Set access params for cash drops	Like setting access params for doors.

No.	Permission	Explanation
20.	Set access params for Entry doors	Like setting access params for doors.
21.	Set time and date.	
22.	Set operating parameters.	There are a number of parameters, including enable/disable for various Vindicator Lock features, which are grouped as “operating parameters”. This permission concerns the ability to modify any of these parameters. It is a powerful permission that should not be given lightly.
23.	Remote log in	Key must have this permission for keyholder to log in to the Vindicator Lock from a remote PC.
24.	Set openable intervals for cash drops.	
25.	Set openable intervals for Entry doors.	
26.	First key timelock override.	When used in conjunction with an Internal key (see next permission), a Timelock Override First Key allows access to outer or inner doors without delay regardless of any timelock settings for that door. Requires the use of a Second key with timelock override permission to access the safe. In normal use, this type of key is carried by an armored courier service.
27.	Second key timelock override.	See above. To open a given outer or inner door, both the First key and the Second key must have the permission to open that door.
28.	Log in without PIN	
29.	Set location code.	Unused
30.	Enroll factory-key.	A factory key has some extremely powerful privileges (e.g., ability to erase all the history). Some Vindicator Lock owners may prefer to disable factory keys from their key databases. However, it may become necessary at some later time to enroll a factory key in order to perform one of the special functions available to such a key. A key with this permission can do that.

No.	Permission	Explanation
31.	Make keys.	This permission is not applicable to a Vindicator Lock. However, there is another device, called a Key Maker, which writes the data in a key that allows it to function as a Vindicator Lock key. Key Makers require log in using the same kind of keys as do Vindicator Locks, and this permission is required in a key in order to use a Key Maker.
32.	Perform factory setup.	This is the permission that makes a key be a factory key. In your keys, it is always turned off and is not modifiable.
33.	Reserved for future use.	
34.	Enroll keys.	The ability to do key enrollment is subject to this permission. Additionally, adequate key administration authority for the logged key relative to the level of the target key is required.
35.	Deactivate keys	The ability to disable keys is subject to this permission. Additionally, adequate key administration authority for the logged key relative to the level of the target key is required.
36.	Modify keys.	The ability to set the key administration authority of a target key and to change its modifiable permissions is subject to this permission. Additionally, adequate key administration authority for the logged key relative to the level of the target key is required.
37.	Arm/Disarm alarm panel	

Setting Parameters

The Vindicator Lock II has several features that depend on time. To make any change that has to do with time, you start at the PARAMETERS menu. The PARAMETERS menu is shown here.



Before You Start



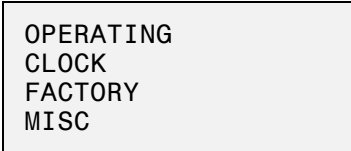
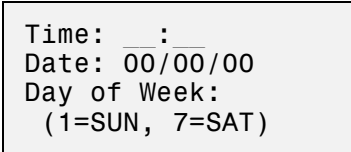
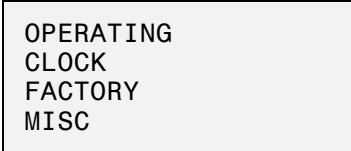
You cannot perform any of the functions described in this section of the manual unless your key has the necessary Permissions. To find out about Permissions, read the section called *Key Permissions* earlier in this manual.

Even if you have the requisite permissions, there are a two circumstances where you will not see the CLOCK option when you select CLOCK. They are:

- a time delayed opening has been started, or
- any door is open.

Setting the Time & Date

To set the date and time for the Vindicator Lock II:

You Do this	The Vindicator Lock Does This
1. Choose PARAMETERS from the ADMINISTRATION MENU	
2. Choose CLOCK	
3. Fill in the fields. Press SEL when finished. The clock is now set. Note: Enter the time in 24-hour format. For example, set the time to 1:30 p.m. by entering 13:30.	

Setting Daylight Savings Time

The Vindicator Lock II can observe daylight savings. You can change the dates that daylight savings will be observed, or you can turn off the daylight savings feature altogether.

To change the clock to or from daylight savings:

You Do this	The Vindicator Lock Does This
1. Choose PARAMETERS from the ADMINISTRATION menu.	<div style="border: 1px solid black; padding: 5px;"> OPERATING CLOCK FACTORY MISC </div>
2. Choose OPERATING	<div style="border: 1px solid black; padding: 5px;"> PIN SCHEDULE OVERRIDE COMMUNICATIONS </div>
3. Choose SCHEDULE	<div style="border: 1px solid black; padding: 5px;"> Schedule: HOLIDAY DAYLIGHT SAVINGS DOOR </div>
4. Choose DAYLITE SAVINGS	<div style="border: 1px solid black; padding: 5px;"> Spring forward: 00/00/00 Fall back: 00/00/00 </div>
5. To turn daylight savings OFF Set Spring forward and Fall back to 01/01/92.	<div style="border: 1px solid black; padding: 5px;"> Spring forward: 01/01/92 Fall back: 01/01/92 </div>
6. To turn daylite savings ON Set different dates for the Spring and Fall time changes.	<div style="border: 1px solid black; padding: 5px;"> Schedule: HOLIDAY DAYLIGHT SAVINGS DOOR </div>

Setting Up Holidays

You can define different timelock schedules for up to 8 different holidays. Holidays can have different access times and access intervals.

To set up a holiday

You Do this	The Vindicator Lock Does This
1. Choose PARAMETERS from the ADMINISTRATION menu.	<div style="border: 1px solid black; padding: 5px;"> OPERATING CLOCK FACTORY MISC </div>
2. Choose OPERATING	<div style="border: 1px solid black; padding: 5px;"> PIN SCHEDULE OVERRIDE COMMUNICATIONS </div>
3. Choose SCHEDULE	<div style="border: 1px solid black; padding: 5px;"> Schedule: HOLIDAY DAYLIGHT SAVINGS DOOR </div>
4. Choose HOLIDAY	<div style="border: 1px solid black; padding: 5px;"> 1. 00/00/00 2. 00/00/00 3. 00/00/00 4. 00/00/00 </div>
5. Fill in the dates for the first 4 holidays. Press SEL to move to the screen that shows holidays 5–8. Press SEL again when all the holidays are defined.	<div style="border: 1px solid black; padding: 5px;"> 5. 00/00/00 6. 00/00/00 7. 00/00/00 8. 00/00/00 </div>

Holiday Intervals

You set the timelock intervals for holidays as you would set the intervals for any other day of the week. See Setting Time Locks on page 46.

Setting Time Locks

The Vindicator Lock II uses timers and a calendar to control the times when the safe may be opened and to ensure that keyholders observe safe practices when using the Vindicator Lock II. You can define different rules for each day of the week and for each door in the safe. You can also define rules for the entry door to the establishment.

Once all outer doors are not able to be opened, the safe is said to be “timelocked.”

The scheduling process is the same for all doors.

You Do this	The Vindicator Lock Does This
1. Choose PARAMETERS from the ADMINISTRATION menu.	<div style="border: 1px solid black; padding: 5px;"> OPERATING CLOCK FACTORY MISC </div>
2. Choose OPERATING	<div style="border: 1px solid black; padding: 5px;"> PIN SCHEDULE OVERRIDE COMMUNICATIONS </div>
3. Choose SCHEDULE	<div style="border: 1px solid black; padding: 5px;"> Schedule: HOLIDAY DAYLIGHT SAVINGS DOOR </div>
4. Choose DOOR	<div style="border: 1px solid black; padding: 5px;"> OUTER INNER DEPOSIT ENTRY </div>
5. Select the door type.	<div style="border: 1px solid black; padding: 5px;"> Which XXXXX door? 2 </div>
6. Enter the desired door number (in this example we've changed it to 2).	<div style="border: 1px solid black; padding: 5px;"> Door Sched: DAYS INTERVALS ACCESS PARAMS </div>

You Do this	The Vindicator Lock Does This
<p>7. Choose DAYS to define the number of periods during which the safe can be opened.</p> <p>Choose INTERVALS to define what time(s) of the day you want the door to be openable.</p> <p>Choose ACCESS PARAMS to set the Delay Interval, Access Interval, and Warning Interval. These parameters are discussed in the following paragraphs</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>How many openable intervals for XXX (0..5)</p> </div>

- If you don't want the safe to be openable at all, (i.e., timelocked) set the number of intervals for the day to 0 (zero).
- If you want the safe to be openable all day, set INTERVALS to 1 and change the Start and End times to 0, i.e., midnight to midnight.
- If you want to delay the opening of a door or limit the amount of time it may remain quietly open, change one of the access parameters. Access parameters are discussed in the following paragraphs.
- If timelock early is enabled and you set the schedule so that an outer door has two intervals in which it can be opened and it will be unable to be opened *before* the end of the current day, a TIMELOCK EARLY message appears in the last option screen for unlocking outer doors during defined opening intervals. If the keyholder chooses this option before the end of the current defined opening interval, the lock becomes unable to be opened until the beginning of the next defined opening interval. In other words, by choosing this option the keyholder can put the lock in Timelock *ahead of the normal schedule*.

Setting Operating Parameters

You can customize the way the Vindicator Lock II operates by changing the parameters, (i.e., operating rules) that control many of its features. These *operating parameters* include:

- PIN entry
- Duress PIN mode
- PIN reject mode
- PIN life
- PIN reject limit
- Log in delay

PIN Entry Requirements

If the security provided by the Vindicator Lock's keys is sufficient for your business, you can disable the PIN entry requirement. However, even if you disable the PIN entry requirement, keys that do not have permission to log in without a PIN will still have to enter a PIN to open the lock. If you want someone to be able to open the safe without using a PIN, you must change their (key's) permission to allow this. You should also disable the PIN entry requirement. See page 50 for instructions.

Duress PINs

Keyholders who are ordered to open the Entry door or safe door under threat of violence, may do so using their Duress PIN. Anyone who opens the Entry door or safe door using their duress PIN automatically sends a Duress-Alarm-Signal.

You can set the Duress PIN mode to ± 5 , +1 (one), or none. When set to ± 5 , keyholders compute their Duress PIN by adding or subtracting 5 from their PIN and changing the last digit only. When set to +1, keyholders compute their Duress PIN by adding 1. If the last digit of their PIN is a 9, their new PIN ends in 0 (zero).

PIN Reject Mode

Setting the Pin Reject Mode determines what the Vindicator Lock II does if someone makes too many mistakes entering a PIN. The lock can:

- deactivate the key, or
- delay the log in (see *Log in Delay* Duration later in this section), thus preventing that key from being used for the duration of the delay.

PIN Life

All keyholders *should* change their PINs occasionally. You can enforce this behavior by setting the PIN Life parameter. The PIN Life parameter controls the number of days that may elapse before the Vindicator Lock II requires a keyholder to change PINs.

PIN Reject Limit

The PIN Reject Limit determines the number of wrong PINs a person can make. Persons who make too many errors may have their keys deactivated or delayed, depending on how you set the PIN Reject Mode. See PIN Reject Mode on page 48 for information on this mode.

The minimum value is 3 and the maximum is 9. Setting the PIN Reject Limit to 0 (zero) disables this feature. The value you set here determines the total number of tries a person gets. For example, if the value is 3, the person may try twice without any consequences; however, on the third try, the key is delayed or deactivated.

Log in Delay Duration

The value of the Log in Delay Duration parameter determines how long the Vindicator Lock II refuses to accept keys whose keyholders entered their PINs incorrectly too many times.

The Log in Delay Duration may be set to any number of minutes between 1 (one) and 255.

To Set PIN Parameters

To set PIN parameters:

You Do this	The Vindicator Lock Does This
1. Select PARAMETERS from the ADMINISTRATION menu.	<div style="border: 1px solid black; padding: 5px;"> OPERATING CLOCK FACTORY MISC </div>
2. Select OPERATING	<div style="border: 1px solid black; padding: 5px;"> PIN SCHEDULE OVERRIDE COMMUNICATIONS </div>
3. Select PIN	<div style="border: 1px solid black; padding: 5px;"> PIN entry: NOT REQUIRED REQUIRED </div>
4. Select whether PIN is required or not required	<div style="border: 1px solid black; padding: 5px;"> Duress-PIN mode: +5 OR -5 +1 NO DURESS-PIN </div>
5. Select the Duress-PIN mode.	<div style="border: 1px solid black; padding: 5px;"> PIN-Rejectmode LOG IN DELAY DEACTIVATION </div>
6. Select which action to take if a PIN is rejected.	<div style="border: 1px solid black; padding: 5px;"> PIN-life: days. (0 for no limit) </div>
7. Set the maximum number of days that a keyholder may go without changing PINs.	<div style="border: 1px solid black; padding: 5px;"> Enter log in delay duration: ___ minutes </div>
8. Enter the log in delay duration for keys whose PINs have been entered incorrectly too many times.	<div style="border: 1px solid black; padding: 5px;"> PIN SCHEDULE OVERRIDE COMMUNICATIONS </div>

Miscellaneous Operating Parameters

Several important operating parameters appear in a “miscellaneous” category.

Minimum/Maximum Key Level

Use this parameter to help prevent the deactivation of the last powerful key in your Vindicator Lock II database. If the only powerful key were deactivated, you might not be able to enroll another powerful key, and therefore might be unable to perform certain actions on the Vindicator Lock II.

The Vindicator Lock II will refuse to deactivate the last key whose Key Level is *equal to or higher than* the value entered here. If there is only one such key, you will be unable to deactivate it until another key with a high enough Key Level is enrolled.

Example You set the Min/Max Key Level to 90. You have one key with a Key Level of 90 and another with a Key Level of 95.

You can deactivate either key, *but not both*.

Idle Key Life

Keys which are not being used should be deactivated. You can ensure that idle keys are deactivated by setting the Idle-Key Life parameter. The Idle-Key parameter determines the maximum number of days that a key may go without a Log in. Keys that have not been used for the specified number of days are automatically deactivated. The Vindicator Lock II will not deactivate the only enrolled key and will not violate any Level parameters you may have set.

Setting Access Parameters

There are three access parameters. They define intervals of time, and mean different things depending on whether they are associated with a safe door or with the building’s Entry door. The following information pertains to safe doors. Entry doors are explained in a separate document.

- The *delay* parameter controls how long you must wait (after requesting to open an inner *or* outer door) until the door can actually be opened. You can set a different delay interval for each door.
- The *access* parameter determines how long you can leave a door open. If the door stays open too long, the Vindicator Lock II starts beeping and tells you to close the door.
- The *warning* parameter controls how long the Vindicator Lock II waits before sending an alarm if you ignore the warning sound.

Entry Door Timing

When equipped with the Entry Door option, the Vindicator Lock II can monitor an entrance to your establishment. The Entry Door option can be installed to operate the alarm panel (Automatic Configuration) or to assume full responsibility for operating the door (Standalone Configuration). You must know how the Entry Door option was installed in order to know how to configure user's keys.

There are two timing intervals associated with the Entry door — the access interval, and the warning interval. These intervals behave differently for the Entry door than they do for safe doors.

Access Interval: When the Entry Door option is configured as standalone, this timer determines the amount of time until door must be closed. If the door is open at the end of this interval, the warning interval starts.

When the Entry Door option is configured to operate the alarm panel, this timer determines the amount of time until the alarm panel is rearmed.

Warning Interval: For Vindicator Locks equipped with the Entry Door option configured as standalone, a held door alarm is issued if the door remains open past the expiration of the timer.

Overrides

Override parameters provide methods of overcoming some of the Vindicator Lock II security features when there is a real need to do so.

Lost Key Override

The Lost Key Override permits a keyholder to use a 10-digit code to open the safe *without using a key*. The missing key:

- must be enrolled in the Vindicator Lock and
- either the key number or the employee's ID number must be available. Also,
- the Lost Key Override option must be enabled on the lock.

The Lost Key Override code is only available from the Key Maker and it only works for the duration of the day on which it was issued. Instructions for obtaining a temporary number are contained in the *Operator's Guide*.

Other restrictions

Anyone using this combination must remember their PIN. More specifically, they must know the PIN that the key had the last time it was used in *this* Vindicator Lock.

The test

Of

Note It is possible to enroll a key in another Vindicator Lock and then change the PIN. The first Vindicator Lock won't have a record of the changed PIN. Until the key is used again at the first Vindicator Lock, it will think the key still has the original PIN.

Outer Door Delay and Time Lock Override

This parameter determines whether or not a key can be used, in conjunction with another key, to override the time locks and time delays on safe doors. Generally, this kind of key is used by an armored courier service.

In operation the first key is presented requesting the timelock override. A second key must then be presented to validate the request. Keyholders may only open doors that *both keys* have permission to open.

Key Permissions

Both keys must have permission to open the designated door(s). If the designated door is an inner door (and, therefore, is located behind an outer door), both keys must also have permission to open the outer door.

First Key

The *first* key must have the “First Timelock override” permission enabled. This key cannot, by itself, be used to log in, even if the doors are not timelocked.

Second Key

The *second* key must have the “Second Timelock override” permission enabled. The second key can be used, by itself, to log in and to open doors; however, it cannot override time delays unless the first key is presented first.

Inner Doors

Time lock override is always enabled for inner doors.

Outer Doors

For outer doors, you can enable overrides on time locks and delays *independently*.

Note When you enable a time lock or time delay override on an *outer* door, time delays and time locks for *both* the outer and inner doors are overridden.

Setting the Idling Text

The Idling Text is the text that is displayed on the first line of the Vindicator Lock’s display while the system is idling. A new lock says “Vindicator Lock”. You can set the idling text to anything you wish so long as you don’t exceed the 16-character maximum length.

To set the idling text:

You do this	The Vindicator Lock Does This
1. Choose PARAMETERS	<div style="border: 1px solid black; padding: 5px;"> OPERATING CLOCK FACTORY MISC </div>
2. Choose MISC.	<div style="border: 1px solid black; padding: 5px;"> MIN-MAX KEY LVL IDLE KEY LIFE IDLING TEXT OTHER </div>
3. Choose IDLING TEXT.	<div style="border: 1px solid black; padding: 5px;"> SMITH 0123456789 1 ABCDEFGHIJ 2 KLMNOPQRST 05 3 UVWXYZ </div>

You enter the characters in the idling text just like you enter employee names. See **Entering an Employee’s Name** on page 11 for instructions on how to use this screen.

Troubleshooting Guide

Troubleshooting

This section describes some common problems and how to fix them. We assume that your Vindicator Lock II has been installed correctly.

Problem	Probable Solution
The Vindicator Lock refuses to accept my PIN.	<p>Usually this means that you've forgotten your newest PIN. Think carefully before you try again. Remember, if you enter a bad PIN too many times, the Vindicator Lock may deactivate your key.</p> <p>The key can be fixed by having your supervisor modify your key and assign it a new PIN.</p>
I get a lot of error messages when I use my key.	<p>The Vindicator Lock key receptacle requires that you place your key firmly and make a solid electrical contact with the receptacle. When you touch the key to the receptacle, try pushing the key slightly to one side. This helps insure a good electrical connection. Do <i>not</i> twist and rotate the key.</p> <p>If you still get an error message, hold the key still for awhile without removing it. The Vindicator Lock will nearly always read correctly on the second try.</p>
The Vindicator Lock is beeping and the display says "Close Door Now!!" but the safe door <i>is</i> closed.	<p>This usually occurs because the magnetic door sensor on the safe door is either broken or misaligned. When this happens, the Vindicator Lock "thinks" the door is open when it is actually closed. After the door open period has expired, the Vindicator Lock sends a door open alarm (just like its doing now). If this happens, you should contact your safe manufacturer.</p>
The Vindicator Lock is beeping and the display says "Close Door Now!!" but I can't close the safe door because the bolts are extended.	<p>The Vindicator Lock thinks the door is open so its sending the door open alarm. Both the lock and the safe are probably ok.</p> <p>To fix the problem, log in and open the door.</p>
When I print a report, the printer just prints gibberish.	<p>This usually happens if the Vindicator Lock and the printer are set at different "baud rates." Consult your printer manufacturer's documentation and the section of this manual covering baud rates. Make sure both the printer and the Vindicator Lock are set to the same baud rate and that the printer is set for XON/XOFF.</p>
The Vindicator Lock's display is blank and nothing happens when I present my key.	<p>In all likelihood, there is no power. Make sure the power module is plugged in to a standard 110 VAC receptacle. Make sure there is power at the wall receptacle and that a wall switch hasn't turned it off.</p>

Problem	Probable Solution
<p>Help! I've lost my key and no one else is around with a valid key! How do I get my safe open?</p>	<p>If your Vindicator Lock has had the Lost Key Override option enabled, you can contact your safe dealer or Kaba Mas Technical Support at 1-800-950-4744 for a Lost Key Override Code. To find out if the lost key override is enabled, press the HELP key. A dot will appear in the upper right corner if the override is enabled.</p> <p>Have the following information ready: the Company Code, the Location Code, and the date as displayed on your Vindicator Lock. You can get this information by pressing the Help key. You will also need the key number of the misplaced key. If you don't have the key number, you can use the employee ID assigned to that key.</p> <p>Give this information to the safe dealer or to the Kaba Mas Technical Support representative who will give you a Lost Key Override Code. Enter this 10-digit code at the keypad and press SEL. If you've provided the correct information, you can continue to log in normal.</p> <p>You can use the Lost Key Override Code as many times as you like until midnight. At that time, the Lost Key Override Code expires.</p>
<p>I'm unable to enroll any keys with my key. The Vindicator Lock indicates that there is a wrong company code.</p>	<p>The Company Code, the Key Series, and the Location Code of the Vindicator Lock must be set the same as the keys you are trying to enroll before you can enroll any keys into it. You can learn how these are currently set by pressing the <i>HELP</i> button on the keypad. Consult your safe supplier for assistance in getting these items set correctly.</p>

Appendix 1 – Lock Parameters Chart

This information can be obtained from your Vindicator Lock II by pressing the HELP key.

- Vindicator Lock II Firmware version number.
- Company Code
- Location Code
- Key Series

Access Parameters

	Door #1	Door #2	Door #3	Door #4	Door #5	Door #6	Door #7	Door #8
Delay Time								
Access Time								
Warning Time								

Time Lock Intervals

Door 1

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 2

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 3

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 4

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 5

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 6

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 7

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Door 8

	Sun.	Mon.	Tue.	Wed.	Thurs.	Fri.	Sat.	Holiday
Start 1								
End 1								
Start 2								
End 2								
Start 3								
End 3								
Start 4								
End 4								
Start 5								
End 5								

Appendix 2 – Key Permissions Chart

Key Permissions

Use the chart below when deciding the types of keys needed. For example, if a District Manager needs the ability to get reports, but you don't want him to be able to open the safe, give him only the four reports Permissions (Print History, Display History, Print Database, and Display Database). The District Manager might be key type 1 so you would put check marks in column 1 next to those four Permissions.

If a Store Manager needs to be able to open the safe and set openable intervals, you may call this a key type 2 and put check marks in column 2 next to those Permissions. Check the Def column if you want to give that Permission and check the Mod column if you wish that Permission to be Modifiable at a later time. However you set up your key Permissions, make sure that, among all your keys, you can do everything you need to.

Key Types

<i>Key Type</i> <i>Permissions</i>	Type 1		Type 2		Type 3		Type 4		Type 5	
	Def	Mod	Def	Mod	Def	Mod	Def	Mod	Def	Mod
Unlock door 1.										
Unlock door 2.										
Unlock door 3.										
Unlock door 4.										
Unlock door 5.										
Unlock door 6.										
Unlock door 7.										
Unlock door 8.										
Print history.										
Display history.										
Print Database										
Display database.										
Adjust time for Daylite Savings.										
Set outer door access params.										
Set inner door access params.										
Set outer door openable intervals										
Set inner door openable intervals										
Set cash drop access params.										
Set Entry door access params.										

Set time and date.										
Set operating parameters.										
Allow remote log in										
Set cash drop openable intervals										
Set Entry door openable interval.										
First timelock override										
Second timelock override										
Log in without a PIN										
Enroll factory-key.										
Enroll keys										
Modify permissions										
Use KeyMaker										
Deactivate keys										
Perform factory set up										
Arm/Disarm alarm panel										
Key Level										
Enrollment Level										
Max. Administration Authority										
Location Restriction										

Def = Default Permission; Mod = Modifiable Permission

You may reproduce the charts contained in these Appendices without seeking our permission.

On the following page is another example of a permission chart. It shows all the permissions and their numbers.

Vindicator Lock II Permission Chart OEM:

Date: _____ Company: _____
 Company Code: _____ Key Series: _____

Title of user (Manager, etc.)

√ = Operate the Permissions

Key Type / Modifiable

				1	Mod	2	Mod	3	Mod	4	Mod	5	Mod	6	Mod
	Type	Door #	Behind												
1	() Door	()	()												
2	() Door	()	()												
3	() Door	()	()												
4	() Door	()	()												
5	() Door	()	()												
6	() Door	()	()												
7	() Door	()	()												
8	() Door	() Sol. #6	()												
9	Unused														
10	Print History														
11	Display History														
12	Print Database														
13	Display Database														
14	Adjust Daylight Savings														
15	Access parameters Outer														
16	Access parameters Inner														
17	Openable intervals Outer														
18	Openable intervals Inner														
19	Access parameters Cash														
20	Access parameters Entry														
21	Time and Date														
22	Operating parameters														
23	Remote log in														
24	Openable intervals Cash														
25	Openable intervals Entry														
26	First timelock override														
27	Second timelock override														
28	Log in without PIN														
29	Reserved														
30	Enroll Factory key														
31	Make Keys														
32	Perform factory setup														
33	Reserved														
34	Enroll Keys														
35	Deactivate keys														
36	Modify permissions														
37	Arm/Disarm Alarm System														
	Key Level														
	Enrollment Level														
	Max. Administration														
	Location Restriction														
	Qty of each key type														

Appendix 3 — Location Codes and Location Restrictions

Location Restriction

Every Vindicator Lock II has a unique 10-digit Location Code stored in its memory. When a *new* key is enrolled at a lock, the Location Code is copied into the key so that both key and lock match. The Location Restriction value determines how many digits of the Location Code stored in the key must match the Location Code stored in a different lock before that lock will permit the key to be enrolled.

In effect, the Location Restriction number provides you with a means of allowing a key to be enrolled in multiple locks while maintaining control over *which* locks it can be enrolled in.

It is important to realize that the Location Restriction only becomes significant after the initial enrollment. New keys contain only the Location Restriction — not the actual digits that must be matched. The first safe you enroll the key in determines the digits that must be matched before you can enroll the key in another lock.

Example You have 3 safes at different locations in a small town. You want to be able to enroll the city manager’s key in all 3 safes. You want to be able to enroll an assistant’s key in 2 of the safes, and you want to be able to enroll a clerk’s key only in the safe where he or she works. The 10-digit location codes for each of the safes is shown below.

Safe 1	Safe 2	Safe 3
1234567890	1123456789	1112345678

- To allow the city manager’s key to be enrolled in all 3 safes, assign it a Location Restriction of 1 (one). Because all the store’s Location Codes start with 1 (one), this key can be enrolled in any safe, and can be subsequently enrolled in any other.
- To allow the assistant’s key to be enrolled only in Safe 2 and Safe 3, assign it a Location Restriction of 2 and enroll it in either Safe 2 or Safe 3. This key can then also be enrolled in the other safe, since both Safe 2 and Safe 3 have a Location Code beginning with “11.” *Do not* enroll this key at Safe 1. If you do, the first 2 digits won’t match those of Safe 2 or Safe 3, and you will not be able to enroll the key there.
- To restrict the clerk’s key to just one location, assign it a Location Restriction of 3 and *enroll it the correct safe*. Since no two safes share the same first 3 digits in their Location Code, the key can not be subsequently enrolled in any other safe.

Appendix 4 – Example Key Setup 1

Key Setup

In this example, different people need different authority with regard to access to the safe. The Permissions shown in this case give Regional Security personnel very powerful keys but the keys cannot be used to open the safe.

Using higher key levels for higher-level personnel and lower key levels for lower-level personnel along with a *single low Enrollment Level* for *all* keys permits lower-level keys to enroll higher level keys but keeps them from *deactivating* higher level keys — even if they have Deactivate Keys Permission.

In this arrangement, Store Managers, other District Managers, or Regional Security Managers can enroll District Manager’s keys. A Location Restriction of zero (0) permits all keys to be enrolled at any location provided they are enrolled by authorized keys. Little or no changes were expected for key Permissions, so all Permissions were set to be not Modifiable.

Key Type Permissions	Rgnl Sec Manager		District Manager		Store Manager		Asst Manager	
	Type 1		Type 2		Type 3		Type 4	
	Def	Mod	Def	Mod	Def	Mod	Def	Mod
Unlock door 1.			✓		✓		✓	
Unlock door 2.			✓		✓		✓	
Unlock door 3.			✓		✓			
Unlock door 4.								
Unlock door 5.								
Print history.	✓		✓					
Display history.	✓		✓		✓			
Print Database	✓		✓					
Display database.	✓		✓		✓			
Adjust time for Daylite Savings.	✓		✓		✓			
Set outer door access params.	✓		✓		✓			
Set inner door access params.	✓							
Set outer door openable intervals	✓		✓					
Set inner door openable intervals	✓							
Set cash drop access params.								
Set Entry door access params.								

Set time and date.	✓						
Set operating parameters.	✓						
Allow remote log in							
Set cash drop openable intervals							
Set Entry door openable interval.							
First timelock override							
Second timelock override							
Log in without a PIN							
Enroll factory-key.	✓		✓				
Enroll keys	✓		✓		✓		
Modify permissions	✓						
Use KeyMaker							
Deactivate keys	✓		✓		✓		
Perform factory set up							
Arm/Disarm alarm panel							
Key Level	80	65	50	35			
Enrollment Level	60	60	60	40			
Max. Administration Authority	85	70	55	40			
Location Restriction	0	4	8	10			

Appendix 5 – Example Key Setup 2

In this example, different people need different authority with regard to access to the safe. The Permissions shown in this chart give Regional Security personnel very powerful keys, but the keys cannot be used to open the safe.

Using higher key levels for higher-level personnel and lower key levels for lower-level personnel prevents lower level keys from deactivating higher level keys. The use of two Enrollment Levels (40 for Asst and Shift Managers and 60 for everyone else) assures that a Store Manager cannot enroll other Store Managers nor can a Store Manager enroll higher level employees.

In this example, Store Managers can only enroll Asst. Managers and Shift Managers. The varying Location Restrictions make it possible to restrict the Asst Manager and the Shift Managers to only one store while allowing other managers to use their keys at multiple locations.

Using Modifiable Permissions (see Unlock Inner Door 1 for Shift Manager for example) keeps the setup flexible.

<i>Key Type</i> <i>Permissions</i>	Reg Sec Manage		District Manage		Store Manage		Asst Manage		Shift Manage	
	Type 1		Type 2		Type 3		Type 4		Type 5	
	Def	Mod	Def	Mod	Def	Mod	Def	Mod	Def	Mod
Unlock door 1.			✓		✓		✓		✓	
Unlock door 2.			✓		✓		✓			✓
Unlock door 3.			✓		✓					
Unlock door 4.										
Unlock door 5.										
Print history.	✓		✓							
Display history.	✓		✓		✓					
Print database.	✓		✓							
Display database										
Adjust time for Daylite Savings.	✓		✓		✓		✓			✓
Set outer door access params.	✓		✓		✓					
Set inner door access params.	✓									
Set outer door openable intervals	✓		✓							
Set inner door openable intervals	✓									
Set cash drop access params.										
Set Entry door access params.										

Set time and date.	✓								
Set operating parameters.	✓								
Allow remote log in									
Set cash drop openable intervals									
Set Entry door openable interval.									
First timelock override									
Second timelock override									
Log in without a PIN	✓								
Enroll factory-key.	✓		✓						
Enroll keys	✓		✓		✓	✓			
Modify permissions	✓								
Use KeyMaker	✓		✓		✓	✓			
Deactivate keys	✓		✓		✓				
Perform factory set up									
Arm/Disarm alarm panel									
Key Level	80	65	50	35	20				
Enrollment Level	60	60	60	40	40				
Max. Administration Authority	85	70	55	40	25				
Location Restriction	0	4	8	10	10				

Appendix 6 – Vindicator Lock II Permissions

Permission No.	Description
1 thru 8.	Open doors 1 through 8
9.	Unused.
10.	Print History.
11.	Display History.
12.	Print Database.
13.	Display Database.
14.	Adjust Daylight Savings Schedule.
15.	Set Access Parameters for Outer Doors.
16.	Set Access Parameters for Inner Doors.
17.	Set Openable Intervals for Outer Doors.
18.	Set Openable Intervals for Inner Doors.
19.	Set Access Parameters for Cash Drops.
20.	Set Access Parameters for Entry Doors.
21.	Set time and date.
22.	Set Operating Parameters.
23.	Remote Log in. A key must have this Permission to log in from a PC.
24.	Set Openable Intervals for Cash Drops.
25.	Set Openable Intervals for Entry Doors.
26.	External Override.
27.	Internal Override.
28.	Log in without a PIN.
29.	Unused.
30.	Enroll Factory Key.
31.	Make keys. A key with this Permission may use the KeyMaker.
32.	Perform factory setup. It is the presence of this Permission that marks a key as being a Factory Key. Only keys with this Permission can change the Company Code, Location Code, Key Series, or Door Configuration, or initialize the History or Key-Database. (Some of these capabilities are protected by additional Permissions.)
33.	Reserved.
34.	Enroll keys.
35.	Deactivate keys.
36.	Modify Permissions.
37.	Arm/Disarm Alarm Panel.
38 thru 48	Unused.

Appendix 7 — Menu Tree

The menu tree shows the relationships among all the menus in the Vindicator Lock II. Gray boxes indicated branching menus — they take you to other menus. The white boxes represent terminal branches — they are the end of the line. When you've made these choices, you are through with that part of the menu system.

Warranty Service

Returning Material

Direct all communications and material to:

Kaba Mas Corporation
Technical Support
749 W. Short St.
Lexington, KY 40508 USA

Please complete the following steps:

1. Obtain a CPR# (Customer Problem Report #) or RMA# (Return Material Authorization #) through one of the following methods:
 - Call Tech Support at **1-800-950-4744**
 - Fax Tech Support at **859-281-5766**
 - Email Tech Support at **kholmes@kml.kaba.com**
2. Provide a detailed statement of the problem or fault symptom.
3. Provide a Purchase Order number if known or credit card number if needed.
4. Furnish the model number and serial number of the component.
5. Furnish the name and telephone number of the person most familiar with the problem.
6. Repack the component(s) with sufficient packing fill or foam to prevent damage.
7. Display the following on the outside of the shipping carton:
 - Kaba Mas address label
 - Customer address label
 - CPR# or RMA# written next to the Kaba Mas address label
8. Ship prepaid to Kaba Mas.

IMPORTANT: The CPR# or RMA# SHOULD be clearly marked on the OUTSIDE of the shipping container (s). If you do not put this number on the container, your repair may be delayed.

Out-of-Warranty Service

Kaba Mas also provides service for equipment that is out of warranty. Contact Technical Support for pricing information. Allow 4 to 6 weeks for return.

INDEX

A

Access parameters, 51
Authority levels, 7

C

Changing key administration authority, 16
Changing key permissions, 8, 15
Changing keys, 14
Changing permissions, 15
Company code, 56

D

Database reports
 interpreting, 35
 interpreting columns of Xs and Ys, 37
 printing, 34
Daylight savings time, 44
Deactivating keys, 7, 12
Deleting keys, 12
Deleting keys by number, 13
Displaying history reports, 21

E

Employee names
 entering, 11
Enrolling keys, 7
Enrolling new keys, 10
Enrollment Level, 71
Entering employee names, 11
Entry door timing, 52

H

History reports
 event types, 22
 interpreting, 19
 question marks in, 19
Holidays, 45
 setting up, 45

I

Idle key life, 51
Idling text, 54
Interpreting database reports, 35

K

Key administration authority, 16
 changing, 16
Key Administration Authority Level
 modifying, 8
Key levels, 7
KEY menu, 4
Key permissions, 63
Key Permissions, 4
Keys
 Authority levels, 7
 changing, 14
 changing permissions, 15
 deactivating, 7
 Deactivating, 12
 deleting, 12
 deleting by number, 13
 enrolling, 7
 Enrolling, 10
 example setup, 69
 Key series, 56
 modifying, 7, 14
 Permissions, 37, 40
 Permissions, 63, 69, 71
 Repairing, 17

L

Location code, 56
Location restriction, 67
Location Restriction, 71
Lost key override, 52, 56

M

Menus
 KEY, 4
Min-Max key level, 51
Miscellaneous operating parameters, 51
Modifying Key Administration Authority
 levels, 8
Modifying key permissions, 8, 15
Modifying keys, 7, 14. *See* Changing keys

O

Operating parameters
 setting, 48

P

Pedestrian Door timing, 52

Permissions, 15, 37, 40

 changing, 15

 chart, 63

 example, 69, 71

 keys, 4

 modifying, 8

Printing database reports, 34

Printing history reports, 18

Q

Question marks in history reports, 19

R

Repairing keys, 17

Reports

 database, 34

 history, 18

S

Setting access parameters, 46

Setting daylight savings, 44

Setting operating parameters, 48

Setting PIN parameters, 50

Setting time and date, 43

Setting up holidays, 45

T

target key

 definition, 1

Time & date

 Daylight savings, 44

 Setting, 43

Time lock override, 53

timelock

 definition, 46

Timelock early, 47

Troubleshooting, 55

W

Warranty, 78

Warranty Service, 77

Notes

Vindicator[®]

Lock II

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*The Vindicator Lock is compliant with FCC Subpart J, Part 15 Class A requirements for
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