Installation Instructions For
Profile Series Exit Device

A7455B

SARGENT
ASSA ABLOY

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ASSA ABLOY, the global leader
in door opening solutions
# Table of Contents

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Warning and Items Supplied</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Parts Breakdown</td>
<td>2-3</td>
</tr>
<tr>
<td>3</td>
<td>Rim Installation Instructions</td>
<td>4-7</td>
</tr>
<tr>
<td>4</td>
<td>Mortise Installation Instructions</td>
<td>8-11</td>
</tr>
<tr>
<td>5</td>
<td>Operational Check</td>
<td>12</td>
</tr>
<tr>
<td>6</td>
<td>Basic Programming Instructions</td>
<td>12-21</td>
</tr>
<tr>
<td>7</td>
<td>Chain Programming</td>
<td>22</td>
</tr>
<tr>
<td>8</td>
<td>Transaction Log</td>
<td>23</td>
</tr>
<tr>
<td>9</td>
<td>Supplemental - Individual Door Log Sheet</td>
<td>24</td>
</tr>
</tbody>
</table>
1 Warning

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced TV technician for help

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Warning

To comply with “Fire Listed” doors, the batteries must be replaced with alkaline batteries only.

Items Supplied with Exit Device

Items included in your 8877 and 8977 Series Exit Device carton:

- Outside Escutcheon with Keypad
- Outside motorized Trim Assembly
- Exit Device
- Mortise cylinder for 8977
- Rim cylinder for 8877
- Inside Escutcheon with Circuit Board and Battery Pack
- 6 “A” alkaline batteries
- Screw Pack

Items included in your 8878 and 8978 Series Exit Device Carton:

- Outside Escutcheon with Keypad
- Outside Motorized Trim Assembly
- Exit Device
- Inside Escutcheon with Circuit Board and Battery Pack
- 6 “A” alkaline batteries
- Screw Pack
2 Parts Breakdown

8977/8978 x ET x Lever Design
Profile Series Mortise Exit Device

<table>
<thead>
<tr>
<th>ITEM</th>
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<th>DESCRIPTION</th>
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<td></td>
<td>52-1397</td>
<td>Outside Escutcheon Housing Only</td>
<td>1</td>
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<tr>
<td></td>
<td>52-0176</td>
<td>Outside Escutcheon End Cap Only</td>
<td>1</td>
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<td>2</td>
<td>52-2460</td>
<td>Inside Escutcheon Assembly with 100 User Controller (LK)</td>
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<tr>
<td>2</td>
<td>52-2461</td>
<td>Inside Escutcheon Assembly with 500 User Controller (LU)</td>
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<tr>
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<td>Inside Escutcheon Assembly with Prox / Key Pad Controller (PA/PK)</td>
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<td>(LU) Controller Assembly</td>
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<td>52-2455</td>
<td>(PK/PA) Controller Assembly</td>
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<td>4</td>
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<td>Security Screw</td>
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<td>Fire Stop Screws #8 x 1/2&quot; Type &quot;AB&quot; Phillips Pan Head Self Tap</td>
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<td>10</td>
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<td>Motor and Harness Assembly</td>
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<td>13</td>
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<td>ET Thru-Bolts</td>
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<td>Escutcheon Thru-Bolts</td>
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<td>Center Case Assembly RHRB (Standard and 12-)</td>
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<td>19</td>
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### Parts Breakdown (Continued)

#### 8877/8878 x ET x Lever Design

#### Profile Series Rim Exit Device

<table>
<thead>
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<td>Outside Escutcheon End Cap</td>
<td>1</td>
</tr>
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<td>Fire Stop Plate</td>
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<td>ET Thru-Bolts</td>
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<td>14</td>
<td>13-0074</td>
<td>Cylinder Retaining Screws</td>
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<td>15</td>
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<td>Escutcheon Thru-Bolts</td>
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<td>18</td>
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<td>Chassis Cover Screws</td>
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**Diagram:**

1. Outside Escutcheon Assembly (PA)
2. Outside Escutcheon Assembly (LK, LU, PK)
3. Key Pad and Proximity Assembly (LK, LU, PK)
4. Proximity Assembly (PA)
5. Outside Escutcheon Housing Only
6. Outside Escutcheon End Cap
7. Inside Escutcheon Assembly with 100 User Controller (LK)
8. Inside Escutcheon Assembly with 500 User Controller (LU)
9. Inside Escutcheon Assembly with Prox / Key Pad Controller (PA/PK)
10. Inside Escutcheon Housing Only
11. Inside Escutcheon End Cap Only
12. (LK) Controller Assembly
13. (LU) Controller Assembly
14. (PA/PK) Controller Assembly
15. Battery Cover
16. Security Screw
17. Security Tool
18. Fire Stop Plate
19. Fire Stop Screws #8 x 1/2" Type “AB” Phillips Pan Head Self Tap
20. Battery Alkaline ("AA" Cell)
21. Battery Keeper
22. Screw Pack (Includes item numbers 5, 6, 7, 15)
23. Motorized ET Lever Trim
24. Motor and Harness Assembly
25. ET Thru-Bolts
26. Cylinder Retaining Screws
27. Escutcheon Thru-Bolts
28. Center Case Assembly LHRB & RHRB (Std.)
29. Center Case Assembly LHRB (12-) & RHRB (12-)
30. Chassis Cover
31. Chassis Cover Screws
Rim Installation Instructions for Rim Type Exit Device 8877/8878

NOTE: BEFORE STARTING
• This device is non handed
• Door should be fitted and hung
• Verify box label for size of exit device, function and hand
• Install mullion in frame, if used

Step #1 – Exit Hardware & Door Prep
Prep Door according to Exit installation instructions A6770

Step #2 – Installation of Outside and Inside Trim

1. Outside Trim
   • Route harness through under cut of cylinder hole and out to other side of door
   • Mount “ET” control onto door

2. Inside Trim
   • Route “ET” harness along track cutout for wood doors and access hole for metal doors
   • Mount exit chassis carefully. DO NOT PINCH HARNESS WIRES
   • “ET” spindle will engage into the hub of exit device chassis
   • Secure chassis with (2) 1/4-20 x 2 3/8” flat head machine screws

3. Cylinder Installation
   • Insert cylinder into “ET” control
   • Mate cylinder tailpiece into hub of exit device chassis
   • Make sure “ET” harness is clear of cylinder and cylinder tailpiece

4. Securing Cylinder
   • Secure cylinder to exit chassis using (2) #12-24 x 1 7/8” connecting screws
   • Fasten exit chassis to door using (4) #10 wood screws or #10-24 machine screws
Step #3 – Apply Fire Stop Plate (Required for 12-)

1. Fire stop plate for 12-devices
   - Fire stop plate required in all fire rated doors (12-)
   - Drill (2) 1/8" diameter holes if the door is not supplied with them
   - Secure fire stop plate to door with (2) #8 x 1/2" self tapping screws

**NOTE:** Fire stop plate is required on all fire rated doors
Rim Installation Instructions (Continued)

Step #4 – Installation of Outside and Inside Escutcheon

1. Insert wires and connector from the outside of the door, through the fire stop plate (if required)
   - For non-12-exit devices, feed wire harness from keypad assembly through hole in door

- Straighten keypad escutcheon and tighten the #8-32 x 1-1/4" pan head screw
Step #5 Battery Installation/Optional Gasket

- Place (6) “AA” batteries into the compartment
- Observe polarity when installing “AA” batteries
- Install battery keeper clip by inserting tabs into bottom slots first
- To remove keeper, pull on top tab
- Attach battery cover to inside escutcheon making sure to line up tabs with retaining slots in battery cover
- Secure with security screw
- Optional (68-1400) gasket intended for exterior applications only

Step #6 Rail Assembly
Attach rail assembly according to exit installation instructions A6770
Installation Instructions for Mortise Type Exit Device 8977/8978

NOTE: BEFORE STARTING
- Check hand of door - this device is not reversible
- Door should be fitted and hung
- Verify box label for size of exit device, function and hand

Step #1 - Exit Hardware & Door Prep
Prep door according to Exit installation instructions A6705
Mortise Installation Instructions (Continued)

Step #2 – Install Outside & Inside Trim

1. Exit Chassis:
   - Route “ET” harness along track cutout for wood doors and access hole for metal doors.
   - Mount exit chassis carefully. **Do not pinch harness wires**
   - Position exit chassis on door so that lever arm is under rear section of mortise lock lever. Then lift up until latchbolt is completely retracted.
   - Fasten exit chassis to door using (4) #10 wood screws or #10-24 machine screws

   ![Diagram of Exit Chassis Installation](image)

2. Outside Trim
   - Route harness through wire cutout and out to other side of door
   - Place “ET” control onto door
   - Insert (2) 1/4-20 x 2-3/8 Flat head screws
   - “ET” spindle will engage into mortise lock

   ![Diagram of Outside Trim Installation](image)

3. Cylinder Installation
   - Insert cylinder into “ET” control. Back out the cylinder set screw in mortise lock
   - Thread cylinder clockwise into mortise lock until the cylinder sits flush and correct in “ET” control (see figure 1)
   - Tighten cylinder set screw

   ![Diagram of Cylinder Installation](image)

---

Figure 1: Proper and improper placements of the cylinder and lever arm.
Mortise Installation Instructions (Continued)

Step #3 – Apply Fire Stop Plate (Required for 12-)

1. Fire stop plate for 12-devices
   - Fire stop plate required in all fire rated doors (12-)
   - Drill (2) 1/8” diameter holes if the door is not supplied with them
   - Secure fire stop plate to door with (2) #8 x 1/2” self tapping screws
Mortise Installation Instructions (Continued)

Step #4 – Outside Keypad Escutcheon

1. Insert Wires and Connector
   • From the outside of the door through the Fire Stop Plate (if required)
   • For non 12- exit devices feed wire harness from keypad assembly through hole in door

2. Straighten keypad escutcheon and tighten the #8-32 x 1-1/4" pan head screw

Step #5 – Rail Assembly
Attach rail assembly according to Exit installation instructions A6705
5 Operational Check

- Place key into cylinder and rotate key
- The key will retract the latchbolt, the key should rotate freely
- Inside rail retracts latchbolt
- Enter 1234* to unlock outside lever handle and retract latchbolt
- If a card or prox is used, present them as shown below. Microprox Tags are presented like cards.

Key/Cylinder, Code Verification

Presentation of Card or Tag

Presentation of Fob

6 Programming Instructions for Keypad Operations Only

The Keypad Lock can support 100 (LK) / 500 (LU, PK, PA) users. Each user is assigned a User Number in addition to the code used for entry.

Example:

<table>
<thead>
<tr>
<th>USER TYPE</th>
<th>USER NUMBER</th>
<th>USER CODE (2-6 DIGITS)</th>
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<tbody>
<tr>
<td>Master</td>
<td>01</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>Emergency</td>
<td>02</td>
<td>2 2 2 2</td>
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<tr>
<td>Supervisor</td>
<td>03</td>
<td>3 0 3 0 3 0</td>
</tr>
<tr>
<td>Standard</td>
<td>04-97 (LK)</td>
<td>2 6 2 5</td>
</tr>
<tr>
<td></td>
<td>04-500 (LU, PK, PA)</td>
<td>2 6 5</td>
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</tbody>
</table>
Programming Instructions for Keypad Operations Only

- Soflink™ Plus must be used with (PA) controller for programming
- The Master Code is always User “01”. The Master Code assigns the Emergency and Supervisory Codes. It is also used for programming. Users are deleted through the Master Programming Code only
- The Emergency Code is always User “02”. The Emergency Code has an unlock time of 10 seconds and entry when low battery expiration occurs
- The Supervisory Code is always User “03”. The Supervisory Code allows temporary lockout of selected users, changes duration of unlock time, requests infrared interrogation output, may add additional User Codes
- The first User Code will be User “04” or higher. User numbers do not have to be used or entered sequentially

To Begin Programming:
The Lock Controller is preset at the factory with Master Code “1234”. Entering 1234 * will unlock the lock allowing the lever handle to retract the latchbolt.

Initial Set-Up Procedures:
- The following are typical procedures to follow when setting up your Exit Keypad
- If a mistake is made during any of procedures, depress the “*” several times until the yellow LED goes out
- If no keystroke is made in a 30sec time frame the programming up to that point will default and you will have to start over

LK Programming

To determine which programming steps to use for your lock see the example below:

If your label has an LK, then use the programming below.
If your label has an LU or PK, turn to the next set of programming.

Change the Master Code

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
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<tbody>
<tr>
<td>99# 1234*</td>
<td>Yellow LED blinks</td>
</tr>
<tr>
<td>50# 1#</td>
<td>Yellow LED blinks</td>
</tr>
<tr>
<td>New Master Code*</td>
<td>Yellow LED blinks quickly</td>
</tr>
<tr>
<td>New Master Code*</td>
<td>Yellow LED blinks slowly</td>
</tr>
<tr>
<td>*</td>
<td>Yellow LED goes out (If solid, see note)</td>
</tr>
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</table>

This example uses the Factory Default 1234*, yours may differ.
It is recommended not to use the factory default master code.
### To Enter the Emergency Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
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<tbody>
<tr>
<td>99# Master</td>
<td>Master Code</td>
</tr>
<tr>
<td>50# 2#</td>
<td>Emergency Code (1-6 digits)</td>
</tr>
<tr>
<td>Emergency (1-6 digits)</td>
<td>Emergency Code (1-6 digits)</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
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</table>

Yellow LED blinks

Emergency Code defaults to a 10 second unlock time

- **Factory Default Emergency Code is 4321**

### To Change the Supervisor Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
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<td>99# Master</td>
<td>Master Code</td>
</tr>
<tr>
<td>50# 1# 3#</td>
<td>Supervisory Code (1-6 digits)</td>
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<tr>
<td>Supervisory (1-6 digits)</td>
<td>Supervisory Code (1-6 digits)</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
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</table>

Yellow LED blinks

Enter A User Code

<table>
<thead>
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<th>Code</th>
<th>Default/Mode</th>
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<tbody>
<tr>
<td>99# Master</td>
<td>Master Code or Supervisory Code</td>
</tr>
<tr>
<td>50# 1#</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>User Code (1-6 digits)</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
</tr>
</tbody>
</table>

Enter A Passage (Maintained) Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>99# Master</td>
<td>Master Code</td>
</tr>
<tr>
<td>50# 0#</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>User Code (1-6 digits)</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
</tr>
</tbody>
</table>

Enter A One Time User Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>99# Master</td>
<td>Master Code or Supervisory Code</td>
</tr>
<tr>
<td>50# 5#</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>User Code (1-6 digits)</td>
<td>User Code (1-6 digits)</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
</tr>
</tbody>
</table>

### To Deactivate / Reactivate "Beep" With Key Stroke

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>99# Supervisory or Master Code</td>
<td>Deactivate / Reactivate &quot;Beep&quot; With Key Stroke</td>
</tr>
<tr>
<td>30# 0# 0# (Off) 1# = On</td>
<td>Deactivate / Reactivate &quot;Beep&quot; With Key Stroke</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
</tr>
</tbody>
</table>

Note: If turning Beep OFF, Not audible on last two steps.

### To Clear the Entire Memory

<table>
<thead>
<tr>
<th>Code</th>
<th>Default/Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>99# Master</td>
<td>Master Code</td>
</tr>
<tr>
<td>46# 000000# 00000#</td>
<td>Clear the Entire Memory</td>
</tr>
<tr>
<td>*</td>
<td>Timeout</td>
</tr>
</tbody>
</table>

This deletes ALL Codes, including Master, Emergency and Supervisory. The Master Code is set back to 1234*, Door Number to 0001 and Unlock Time to 5 seconds. If the Master Code is not known, Factory Assistance will be required to clear the memory. Call 1-800-810-9473.
To Program Door Name into Keypad

99# Master Code*  
43# Door Name (up to 5 digits)#  
0#  
*  
*  
*  

Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out

To Interrogate Transaction Log

99# Supervisory or Master Code*  
70# 0# 0#  
*  
*  

Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED goes out (If solid, see note)

For additional information, see “Transaction Log”.

Hold an infrared printer up to the infrared LED (as shown). An HP82240B Infrared Printer can be used to download information from the keypad to a printout.

When done printing, the green LED will turn off and the yellow LED will blink slowly.

*  

To Reset / Clear Transaction Log

99# Master Code*  
76# 00000# 00000#  
*  
*  
*  

Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly  
Yellow LED goes out (If solid, see note)

To Delete A User

99# Master Code*  
50# 1# (User Number 04-100)#  
*  
*  
*  

Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out
To Enable/Disable A User
99# Master Code* Yellow LED blinks
56# 0# (Enable) or 1# (Disable) Yellow LED blinks
(User No. 04-100)#
*
*
*
To Set Unlock Time
99# Master Code* Yellow LED blinks
11# (1-99 sec)# 0# Yellow LED blinks
*
*
*
The Unlock Time is adjustable for Momentary Operation. A 5 second unlock time is recommended to extend battery life. Once the unlock time is entered, it is the same for ALL users except 02.

Status Indicators
No Green LED after code is entered once, but flashes after 3 consecutive entries- Invalid Code
4 Long beeps after code is entered - Low Battery.
4 long beeps after code is entered, 4 more long beeps - Voltage (batteries) to low to operate
Enter Emergency Code to gain 1 entry.

LU and PK Programming
To determine which programming steps to use for your lock see the example below:
If your label has a LU or PK then use the programming below.
If your label has a LK turn to LK programming.

Change the Master Code
99# 1234* Yellow LED blinks
50# 1# Yellow LED blinks
New Master Code* Yellow LED blinks quickly
New Master Code* Yellow LED blinks slowly (If solid, see note)
*
*
This example uses the Factory Default 1234*, yours may differ.
It is recommended not to use the factory default master code.

To Enter the Emergency Code
99# Master Code* Yellow LED blinks
50# 2# Yellow LED blinks
Emergency (1-6 Digits)* Yellow LED blinks quickly
Emergency (1-6 Digits)* Yellow LED blinks slowly (If solid, see note)
*
Emergency Code default to a 10 second unlock time
• Factory Default Emergency Code is 4321

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ASSA ABLOY, the global leader in door opening solutions
To Change the Supervisor Code
99# Master Code*  
50# 1# 3#  
Supervisory (1-6 digits)*  
Supervisory (1-6 digits)*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out

Enter A User Code
99# Master Code*  
50# 1# (User Number 04-500)#  
User Code (1-6 digits)*  
User Code (1-6 digits)*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out

Enter A Passage (Maintained) Code
99# Master Code*  
50# 0# (User Number 04-500)#  
User Code (1-6 digits)*  
User Code (1-6 digits)*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out

Enter A One Time User Code
99# Master Code*  
50# 5# (User Number 04-500)#  
User Code (1-6 digits)*  
User Code (1-6 digits)*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
Yellow LED goes out

Enter a Card, Tag or Fob User
99# Master Code*  
50# 1# (User Number 04-500)#  
*  
*  
Present Card, Tag or Fob  
*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
BEEP / Yellow LED blinks  
Yellow LED blinks slowly  
Yellow LED goes out

Enter a User Code + Card, Tag or FOB
99# Master Code*  
50# 1# (User Number 04-500)#  
User Code (1-6 digits)*  
User Code (1-6 digits)*  
Present Card, Tag or Fob  
*  
*  
Yellow LED blinks  
Yellow LED blinks  
Yellow LED blinks quickly  
Yellow LED blinks slowly (If solid, see note)  
BEEP / Yellow LED blinks  
Yellow LED blinks slowly  
Yellow LED goes out
To Clear the Entire Memory
99# Master Code*  Yellow LED blinks
46# 00000# 00000#  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks very fast for 10 sec., then slow
*  Yellow LED goes out

Turn OFF Audio Beep verification on every Key Depression
99# Master Code*  Yellow LED blinks
30# 0# 0# (Off) (1# = On)  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks slowly (If solid, see note)
*  Yellow LED goes out

Turn ON Yellow LED verification on every Key Depression
99# Master Code*  Yellow LED blinks
30# 1# 1# (On) (0# = Off)  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks slowly (If solid, see note)
*  Yellow LED goes out

Set Time
99# Master Code*  Yellow LED blinks
41# hh:mm# (24hr Format) 0#  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks slowly (If solid, see note)
*  Yellow LED goes out
24Hr Format = 1PM = 13, 2PM = 14........10PM = 22, Midnight = 00  Example 13:15 = 1:15PM

Daylight Savings Time
99# Master Code*  Yellow LED blinks
30# 13# 1# (On) (0# = Off)  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks slowly (If solid, see note)
*  Yellow LED goes out

Set Date (Today's Date)
99# Master Code*  Yellow LED blinks
42# mmddyy# D.O.W.# (Sunday=1)  Yellow LED blinks
*  Yellow LED blinks quickly
*  Yellow LED blinks slowly (If solid, see note)
*  Yellow LED goes out
D.O.W. = Day of week
Set Unlock Time
99# Master Code*  
11# (1-99 sec.)# 0#  
* Yellow LED blinks  
* Yellow LED blinks quickly  
* Yellow LED blinks slowly (If solid, see note)  
* Yellow LED goes out

The Unlock Time is adjustable for momentary operation. A 5 second unlock time is recommended to extend battery life. Once the unlock time is entered, it is the same for ALL users except 02.

To Enable/Disable A User
99# Master Code*  
56# 0# (Enable) or 1# (Disable)  
(User No. 04-500)#  
* Yellow LED blinks  
* Yellow LED blinks quickly  
* Yellow LED blinks slowly (If solid, see note)  
* Yellow LED goes out

To Delete A User
99# Master Code*  
50# 1# (User Number 04-500)#  
* Yellow LED blinks  
* Yellow LED blinks quickly  
* Yellow LED blinks slowly (If solid, see note)  
* Yellow LED goes out

To Interrogate Transaction Log Using IR Printer (52-2069)
99# Master Code*  
70# 0# 0#  
* Yellow LED blinks  
* Yellow LED blinks quickly  
* Yellow blink, Green fast, Point printer to infrared LED. The printer will start to record the transactions. When done printing, the Green LED will turn off and the Yellow LED blinks slow.  
Transactions STOP.  
Yellow LED goes out

For additional information, see “Transaction Log”.

Hold printer up to the infrared LED (as shown). An HP82240B Infrared Printer can be used to download information from the keypad to a printout.
To Erase Transaction Log

99# Master Code* Yellow LED blinks
76# 00000# 00000# Yellow LED blinks
* Yellow LED blinks quickly
* Yellow LED blinks slowly (If solid, see note)
* Yellow LED goes out

Note: If the Yellow LED becomes solid rather than blinking, a mistake has been made. Depress the * Button until the Yellow LED goes out and start programming again.

Status Indicators

3 very rapid beeps after User Code entered - Invalid User Code
4 long beeps after User Code entered - Low Battery Indication
4 long beeps after User Code entered, 4 more long beeps - Voltage too low to operate. Enter Master or Emergency Code to gain 1 entry
1 beep after User Code entered - disabled user
4 beeps after User Code entered - deadbolt thrown
3 beeps after User Code entered - user lockout
Alternating red/green LED — Awaiting second entry of Code/Card, Tag or Fob user

PA Programming

To determine which programming steps to use for your lock see the example below:

If your label has a PA and no keypad or front bezel then use the programming below.
If your label has an LK turn to LK Programming.
If your label has an LU or PK turn to LU or PK Programming

In a Prox Only (PA) configuration, all programming must be completed using SofLink™ Plus Software. The Software includes a convenient Software User's Manual, to be used as a programming guide.
First Time Programming
(Using any HID Card and the PA controller
Comm Enable push button)
Note: Card can also be a Fob or Prox Tag

1. Create / Open Door File for PA Lock

2. Connect lock to PC (or PDP) using connectors and cable

3. On PC - Click "Send to Door"
   On PDP – Click "Up/Down"

4. Wake up the PA lock by presenting a HID Card at the PA prox assembly.

5. Within a couple seconds press and hold the PA controller Comm Enable push button for 2 seconds, then release the button

6. On PC or PDP, click “OK”

7. Click OK. If there was an error, check connections and repeat process starting at Step 2.

8. *The Card will NOT signal the lock for 45 seconds from the start of the downloading process. After this time expires, the card should function as indicated by its User Type.

Reprogramming
1. With Card selected as a "CommEnable" User Type programmed with SofLink Plus Software. When this is done, presenting the "CommEnable" prox card to the lock will allow the unit to wake up and initiate the communications channel to the PC without the need to press the CommEnable push button. Follow "First Time Programming" procedure, except skip step 5.

2. With Card previously programmed (other than CommEnable User Type). Follow "First Time Programming" procedure.
Chain Programming

When programming multiple User Numbers and Codes into the LK, LU or PK Keypad Lock, it is not necessary to leave and re-enter the programming Mode (50) for each entry. Multiple entries may be chained together and the three different types of user codes (Standard, Passage and One Time) may be mixed.

The format to be used is as follows where:

“T” is the Type of user code with “1” Standard, “2” Passage and “3” One Time.

“UN_” is User Number (04-99)

“UC_” is User Code (2 to 6 digits) which correlates with the User Number

99# Master or Supervisor Code* 50# Type# User Number a# User Code a*
    User Code a* T# UNb# UCb* UCb* T# UNc# UCc* UCc* ...... T# UN_# UC_* UC_*

An example with four user codes is shown below:

<table>
<thead>
<tr>
<th>Type</th>
<th>User Number</th>
<th>User Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>05</td>
<td>875</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
<td>2226</td>
</tr>
<tr>
<td>2</td>
<td>08</td>
<td>5444</td>
</tr>
<tr>
<td>1</td>
<td>50</td>
<td>3367</td>
</tr>
</tbody>
</table>

Using Master Code 4732 and above information, the lock would be programmed as follows:

99# 4732* 50# 1# 05# 875* 875* 3# 12# 2226* 2226* 2# 08# 5444* 5444* 1# 50# 3367* 3367*

If all user codes are type 1, it is not necessary to enter the type number with each entry.

The format now simplifies to:

99# Master or Supervisor Code* User Number a# User code a* User Code a* UNb# UCb* UCb* UNc# UCc* UCc*...... UN_# UC_* UC_*

An example with three user codes is shown below:

<table>
<thead>
<tr>
<th>Type</th>
<th>User Number</th>
<th>User Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>07</td>
<td>77</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>67832</td>
</tr>
<tr>
<td>1</td>
<td>91</td>
<td>7568</td>
</tr>
</tbody>
</table>

Using Master Code 45988 and above information, the lock would be programmed as follows:

99# 45988* 07# 77* 77* 15# 67832* 67832* 91# 7568* 7568**

To chain the User Number delete procedure:

99# Master Code* User Number a** UNb** UNc**...... UN_****

Using the information from the above example:

99# 45988* 07*** 15*** 91****
8 Transaction Log

To output the last 15 or 1000 transactions, enter 99 # Supervisory or Master Code * 70 # 0 # 0 # **.

- Examples on this page are for the 100 user, 15 transaction unit

Door Name
- If SofLink™ Plus is used, door name must be changed via PC

Sequence Number
- Single digit - 0-9
- Latest transaction - 0
- Oldest transaction - 9

User Number
- Three digits - 001 through 099
- User numbers assigned at time of programming

Transaction Descriptions
- Will vary

Optional Equipment
- Printer Paper (6 Rolls) - 52-0034 used for infrared printers
- Infrared Printer - 52-2069 - used to download the user and transaction type.
- Remote Unlocking - 52-2071 - used for remote unlocking of low profile mortise lock. When the deadbolt is thrown and the remote unlocking feature is used, both the latchbolt and deadbolt can be retracted by turning the lever handle.

Hold an infrared printer up to the infrared LED (as shown). An HP82240B Infrared Printer can be used to download information from the keypad to a printout.
**Supplemental – Individual “Door” Log Sheet (LK, LU, PK and PA)**

Lock Model: _______________________

Door Name: _______________________

Location: _________________________

---

**Table 1: Main Codes - User Programmed “Door” Log**

<table>
<thead>
<tr>
<th>Function</th>
<th>User Number</th>
<th>Default Code</th>
<th>User Programmed Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Code</td>
<td>01</td>
<td>1234*</td>
<td></td>
</tr>
<tr>
<td>Emergency Code</td>
<td>02</td>
<td>4321*</td>
<td></td>
</tr>
<tr>
<td>Supervisory Code</td>
<td>03</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: If entire memory is cleared, you must reprogram Emergency code. The Master code resets back to 1234*. 

---

**Table 2: User Programmed “Door” Log**

<table>
<thead>
<tr>
<th>User Name</th>
<th>User Type</th>
<th>User Number</th>
<th>User Code</th>
<th>Card/Fob#, Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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