

General Information

The Sargent & Greenleaf Models 6128, 6129 and 6106-240 are designed to provide a high level of security combined with flexible features that allow multiple levels of control over normal operations and service access. Follow these instructions carefully to get the best possible use from your lock.

Introduction

- A-Series electronic safe locks incorporate sophisticated electronic circuitry. These locks are suitable for indoor use only.
- The keypad should only be cleaned with a soft, dry cloth. Avoid the use of solvents or liquids.
- Never attempt to lubricate the lock or keypad components. Service should only be performed by a qualified technician.
- Anytime the keypad is removed from its mounting base, either disconnect the lock cable or support the keypad so that it does not hang by the cable. This could adversely affect the cable connector or the keypad receptacle.
- Each time a button is pressed, and the lock accepts the input, it emits a “beep,” and the LED on the keypad lights momentarily.
- All the letters of the English alphabet are displayed on the keypad. This allows you to devise numeric, alphanumeric, or word-based codes. Use whatever approach works best for you.
- All codes end with #. This signals the lock that you have finished entering all digits of the code.
- Personal data which can be directly related to a code holder, such as a birthdate, should not be used in making up a lock code. Avoid codes which can be easily guessed.
- After the lock is changed to a new code, the lock function must be checked by locking and unlocking it several times with the container door open. Make sure it functions correctly before closing the door.



Note: This lock has been Listed by Underwriters Laboratories for use with the following S&G keypad(s):
6120-0XX, 61KP-1XX, 61KP-2XX

Table of Contents

Programming and Operations Guide

1 GENERAL INFORMATION	4
1.1 Security Hierarchy	4
1.2 About Your Locking System	5
1.3 Factory Default Settings	5
2 OPERATING THE LOCK.....	6
2.1 Bank User Group, PIN Positions, and User Codes.....	6
2.2 PIN Positions and Access Responsibilities	7
2.3 Beeps Patterns.....	9
Additional Actions/Conditions for Bank Mode with Keypad Extension	
Additional Actions/Conditions for Service Mode	
2.4 User Access Modes and Opening the Lock	10
Manager/Employee	
Dual Control	
Muti-User (default)	
Time Delay	
2.5 Keypad Input Errors and Clearing the Lock.....	11
2.6 Penalty Time (Bank Mode).....	11
2.7 Lockout.....	11
2.8 Bolt Extension Indicator	11
2.9 Low Battery Indicator	11
2.10 Changing Batteries.....	11
2.11 iButton Touch Key.....	11
3 PROGRAMMING THE LOCK IN BANK MODE	12
3.1 Command 22/33: Changing a PIN Code	12
3.2 Command 32: Setting the Access Mode	12
Enable the Manager/Employee Mode	
Enable the Dual Control Mode	
Enable Multiple User Mode	
Enable the Dual Control Mode 2	
3.3 Command 38: Setting the Duress Alarm Feature	13
Using the Duress Alarm Feature	
Enable the Duress Alarm Feature	
Disabling the Duress Alarm Feature	
3.4 Command 42/43: Verify lock type	14
3.5 Commands 45/54: Lock Initialization for Service Mode Use	14
3.6 Commands 46: Setup Time Delay Override.....	15
3.7 Command 47: Set Time Delay Duration.....	15
3.8 Command 48: Set Opening Window Duration	16
3.9 Command 57: Micro controller reset	16
3.10 Command 73: Set Date - Bank Mode Only	16
3.11 Command 74-76: Add or Delete User Positions.....	17
3.12 Command 77: PIN Position Verification	18
3.13 Command 78: Set Time - Bank Mode Only.....	18

Table of Contents

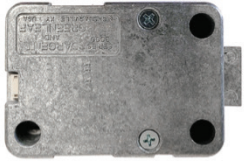
Programming and Operations Guide

3.14 Command 79: Lock Firmware Verification.....	18
3.15 Command 82: Status Check.....	18
3.16 Command 83: Disable Time Delay Override	19
3.17 Command 90: Lock Serial Number Verification	19
3.18 Command 93: Aseal Verification	19
3.19 Command 96: Battery Verification	20
3.20 Command 97: Time/Date Verification	20
3.21 Command 00: Manual Secure Mode	20
4 SERVICE MODE OPERATION	21
4.1 Service Mode Initialization.....	21
4.2 Service Mode Operation.....	21
4.3 Service Mode Operation Codes	22
4.4 Open Lock	22
Single Control	
Single control (15 minute)	
Dual Control	
4.5 Program Bank Features	23
4.6 Download Audit Log.....	23
4.7 Reset User Touch Key:	23
4.8 Using the Duress Alarm Feature	23
4.9 Set Clock Calendar:	24
Red Manager Key	
No Key	
4.10 Reset Lockout:.....	24
4.11 Revoke Dispatcher:	24
4.12 Add Dispatcher	24
4.13 Un-install Lock:	24

1 - General Information

1.1- About Your Locking System

The Model 6128/6129/6106 Electronic Lock has the following hardware components:



6128 /6129 Motorized lock
housed within the safe. Provides for Bank and Service modes of operation



6106 Pivot bolt lock
housed within the safe. Provides for Bank and Service modes of operation



Duress Module (optional)
Housed within the safe. this module must be connected to the lock to use the duress alarm feature.



Keypad
on front of safe door. This is a 12-key alphanumeric keypad used to enter PIN codes and programming commands.



Keypad Extension Base
Installed under the keypad. This is required when using the lock's Service Mode. The extension base provides a green LED to indicate "Status 1", and a red LED to indicate "Status 2" and a yellow LED to indicate "Mode" of lock operation. The extension base also provides a port for communication with Touch Keys.

Keypad Extension Base

Each time you press a number, letter, or other character on the keypad, it beeps and the keypad's red LED flashes. If there is no beep or LED flash, check the batteries and try again (See section 2.10 – **Changing the Batteries**).

The # key acts as an enter function and must be used after each code entry.

The * key is used with Programming Command Codes. It may also be used to clear the keypad if there is an input error, by entering the * key twice.

NOTE:

The lock resonates with different beep sequences to indicate different conditions. The beeps are indicated in the examples by the symbol ♪. For example, five beeps are indicated by ♪ ♪ ♪ ♪ ♪. Always wait for each set of beeps to end before entering another number or letter or you will interrupt the lock's instructions.

1.2 – Security Hierarchy

The Model 6128 ATM banking lock system operates in a Bank Mode only, Service Mode only, or both Bank and Service Mode simultaneously.

Bank Mode Only - Bank users have local control of user PIN positions and codes, and programming through the keypad.

Service Mode Only - Requires the “Lock Management System” for programming Touch Memory Keys and generating one-time use Operation codes for service users. Bank User PIN codes are disabled.

Bank and Service Mode - Bank users have local control of PIN positions and codes, and limited keypad programming commands. The “Lock Management System” controls Bank mode optional features and is used for programming Touch Memory Keys and generating one-time use codes.

1.3 – Factory Default Settings

The 6128/6129 is shipped from Sargent & Greenleaf with factory default settings:

- Bank Mode – enabled / no time restriction.
- Multiple User Mode – enabled
- Time Delay – zero (0) minutes
- Duress – disabled
- Audit download – enabled
- Set Date / Time – enabled

2- Operating the Lock

Positions 00, 02, and 10 have default PIN Codes set at the factory:

PIN Position Description	PIN Position	Default PIN Code
Programmer Code	00	123456
Officer Code	02	020202
Officer Code	10	101010

Programmer Code (PC) can only set-up the operating parameters of the lock. The Programmer Code cannot open the safe.

Bank User Group consists of up to 30 PIN Code positions; 3 Officers and 6 Administrators who manage the lock programs and up to 20 Users. In total there are 29 codes who open and close the lock.

If the lock still has the original S&G factory default settings, you can open the lock by entering a PIN position and PIN Code, which makes up an 8-digit User code, followed by the # key.

By default, the lock is set to Multiple User mode which allows opening of the lock by entering any valid code other than the Programmer Code.

(If lock does not open and beep patterns were heard after pressing the # key, reference section “Beep Patterns” to identify condition.)

We recommend that Users change their PIN Codes immediately after the PIN positions are assigned.

2.1 – Bank User Group

Bank User Group is the factory default and is always active in each lock (unless disabled under Service Mode operation). The Bank User Group has an access hierarchy of Officers (PIN positions 01- 03), Administrators (PIN positions 04-09), and Users (PIN positions 10 - 29). See Tables A&B beginning on the next page for access privileges.

Bank User Group can be configured to operate in three different User access modes.

Multiple User mode – any valid code for the lock (other than the Programmer Code) can be used to open it.

Manager / Employee mode – the Officers or Administrators enable/disable the access privilege of individual User Codes. When in this mode the officer and Administrator Codes do not open the lock.

Dual Control mode– two independent User Codes are needed to open the lock. Officer and Administrator Codes can be used to open the lock in this mode.

2.2– PIN Positions and Access Responsibilities

This section defines each PIN position and the respective User functions as summarized in Tables A & B.

PIN position 00, the Programmer position, can only configure the lock and download the audit trail. The Programmer cannot open any locks. The Programmer Code is used in conjunction with the Lock Management System to initiate the command to set the lock into Service Mode of operation.

Each User is assigned a 2-digit PIN (Personal Identification Number) position and a 6-digit PIN Code. The PIN position identifies the type of User (Programmer, User, etc.) The PIN Code allows the User to access the lock. Together these two codes form the 8-digit User Code. Each User can change his own PIN Code but not his PIN position.

Users will always enter both their PIN position and their PIN Code, followed by the # key.

PIN POSITION PIN CODE
Example: 02 020202 #

Table A: Programmer Code

Pin Position	Position Description	Activity
00	Programmer Code	Used for initialization of Service Mode with commands 45 and 54.
		Used in conjunction with other codes for commands 00,32,38,46,47,48,73,78, and 83.
		Cannot open lock.
		Cannot add/delete other PIN Codes.
		Can change its own PIN code.
		Send duress alarm (when programmed).

Table B: Bank User Group

Pin Position	Position Description	Access		
01 - 03	Officers	• Open the lock (except when Manager/Employee Mode is enabled).		
		• Enable and disable Users in Manager/Employee Mode.		
		• Add new Users (Requires a second valid User Code).		
		• Delete Users (Requires a second valid User Code).		
		• Start time delay (when programmed).		
		• Send duress alarm (when programmed).		
		• Can be a valid second User Code for Dual Control and programming.		
		• Change their own PIN Code.		
		04 - 09	Administrators	• Open the lock (Except when Manager/Employee Mode is enabled).
				• Enable/disable Users in Manager/Employee Mode.
• Delete Users (requires a second valid User Code).				
• Start time delay (when programmed).				
• Send duress alarm (when programmed).				
• Can be a valid second User Code for Dual Control and programming.				
10 - 29	Users	• Change their own PIN Code.		
		• Open the lock		
		• Start time delay (when programmed).		
		• Send duress alarm (when programmed).		
		• Provide second User Code for programming.		
		• Change their own PIN Code.		

2.3– Beep Patterns (beep1 is the sound emitted when any single button is pressed; beep2 is pitched lower)

The following table lists the beep patterns that will be heard when using the 6128/6129 lock.
(KEB = Keypad Extension Base, SM = Service Mode Use).

Action/Condition	Tone & Keypad LED	KEB LED (if present)	Duration
Each Keystroke	1 beep ¹	-	1 cycle
Low Battery	2 beep ¹	Red	5 cycles
Battery too low	20 beep ¹	Red	1 cycle
Start Time Delay	3 quick beep ¹	Red	1 cycle
Time Delay Countdown	1 beep ¹	Red	Every 10 sec
Time Delay Expired	10 quick beep ¹	Green	1 cycle
Open Window Countdown	2 beep ¹	Green	Every 6 sec.
Bolt Extension	1 beep ² + 1 beep ¹	Red	1 cycle
Code input - Lock in 10-minute penalty time	2 brap	-	1 cycle
Code input - Lock Disabled	2 beep ²	Red	1 cycle
Enable lock (mgr/emp mode)	4 beep ¹	-	1 cycle
Disable lock (mgr/emp mode)	2 beep ²	-	1 cycle
Access to program modes	5 beep ¹	Green	1 cycle
Program argument confirmation	3 beep ¹	-	1 cycle
Program complete	3 beep ¹	Green	1 cycle
First user entry - dual control	4 beep ¹	Red	1 cycle
Mode 77 - PIN used	1 beep ²	Red	1 cycle
Mode 77 - PIN empty	1 brap	Red	1 cycle
Access granted	3 beep ¹	Green (+ Amber if SM)	1 cycle
Wrong input/Access denied	1 brap	Red (+ Amber if SM)	1 cycle
Lock Bolt Bound and Unable to Move	4 brap	Red	1 cycle
Time/Date not set before Initialization Attempted	2 brap + 2 brap	Red	1 cycle
Attempt to use a disabled touch key	2 beep ²	Red	1 cycle
Attempt to use a touch key not formatted for system	4 beep ² + 1 brap	Red	1 cycle

2.3.1– Additional Actions/Conditions for Bank Mode with Keypad Extension

Action/Condition	Tone & Keypad LED	KEB LEDs	Duration
Touch key read/write error	1 brap	Red (+ Amber if SM)	1 cycle
Clock battery too low	2 brap	Red/Green alternate	cycles

2.3.2– Additional Actions/Conditions for Service Mode

Action/Condition	Tone & Keypad LED	KEB LEDs	Duration
Lockout initiated	3 brap	Red + Amber	1 cycle
Service Mode initiated		Amber	Duration of SM Activity
Prompt user for input	1 beep ¹	Amber + flash Green	1 cycle - flash until timeout
Secure condition – prompt user	3 beep ¹	Amber + flash Green	1 cycle - flash until timeout
Lock initialization successful	1 beep ¹	Green + Amber	1 cycle
Lock initialization failed	2 brap	Red + Amber	1 cycle

2.4 - User Access Modes and Opening the Lock

Multiple User – The lock can be opened by entering any valid code other than the Programming Code. If time delay is activated, any valid code (except the Programming Code) can be entered to start the time delay. Then any valid code (except the Programming Code) can be entered during the opening window to open the lock.

Manager/Employee – The Group Officers or Administrators enable/disable the access to the lock. When in this mode access is enabled and can be opened by any valid code (not including the Programmer code) until access is disabled.

To enable your lock in Manager/Employee mode

Enter: A Valid Officer or Administrator code + # 🎵 🎵 🎵 🎵

To disable your lock in Manager/Employee mode

Enter: A Valid Officer or Administrator code + # 🎵 🎵

Dual Control – Two valid codes are required to make any programming changes or to open the lock. These may be either User or Officer/Administrator Codes. The second code must be entered within 60 seconds after entry of the first code. If time delay is activated, only one code is required to start the time delay, but both codes must be entered during the opening window to open the lock.

Time Delay – The lock may be programmed with a time delay from 0 - 99 minutes with an opening window of 1 minute to 10 minutes.

If your lock does not use the time delay

Enter: Your 2-digit PIN position Your 6-digit PIN Code # 🎵 🎵 🎵

After the beeps, turn the safe handle to the unlocked position within 6 seconds.

If your lock uses the time delay

Enter: Your 2-digit PIN position Your 6-digit PIN Code # 🎵 🎵 🎵

The pre-set time delay period begins after you enter your code. During the time delay period, the lock beeps once every 10 seconds. At the end of the time delay, the lock will beep rapidly 10 times to signal the start of the opening window, the period during which you can open the lock.

During the opening window, the lock beeps twice every 6 seconds.

You must now: Enter: Your 2-digit PIN and Your Your 6-digit User Code again # 🎵 🎵 🎵

3— Programming Commands

3.1— Command 22/33: Changing a PIN Code

Use Command 22/33 to change your own PIN Code. Always change codes with the safe door open. When changing a User Code, you will enter both the 2-digit PIN position and the 6-digit PIN Code. The PIN position does not change.

To change a PIN Code, perform the following steps

(A PIN Code can contain any numbers/letters except # or *):

Process	Changing the default officer code
1) Enter: 22* or 33*	1) Enter: 22*
2) Enter: Current Code + #	2) Enter: 02020202 #
3) Enter: New Code + #	3) Enter: 02695847 #
4) Enter: New Code + #	4) Enter: 02695847 #

Try the new PIN Code at least three times to confirm operation before closing the safe door.

3.2— Command 32: Setting the Access Mode

The lock may be set for Multiple User, Manager/Employee, or Dual Control Modes.

Manager/Employee — The Group Officers or Administrators enable/disable the access of individual User Codes. When in this mode, the Group Officer and Administrator Codes do not open the lock.

Dual Control — Two valid User Codes are required to make any programming changes or to open the lock. These may be either User or Manager Codes. The second code must be entered within 60 seconds after entry of the first code. If time delay is activated, only one code is required to start the time delay, but both codes must be entered during the opening window to open the lock

Multiple User — The lock can be opened by entering any valid code, except for the Programming Code.

Enable the Manager/Employee Mode

Set the lock into Manager/Employee mode by performing the following steps:

Process	Enabling Manager/Employee mode
1) Enter: 32*	1) Enter: 32*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Officer code + #	3) Enter: 02020202 #
4) Enter: 2 (Function Number) + #	4) Enter: 2 #
5) Enter: 2 (Function Number) + #	5) Enter: 2 #

Enable the Dual Control Mode

The lock may be set for Dual Control mode operation requiring two valid combinations to gain access to the secured area. Change to dual control by performing the following steps:

Process	Enabling Dual Control Mode
1) Enter: 32*	1) Enter: 32*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Officer code + #	3) Enter: 02020202 #
4) Enter: 3 (Function Number) + #	4) Enter: 3 #
5) Enter: 3 (Function Number) + #	5) Enter: 3 #

Enable the Multiple User Mode

The lock may be set for Multi-User operation requiring one valid user code to gain access to the secured area. Change to Multi-User mode by performing the following steps:

Process	Enabling Multiple User Mode
1) Enter: 32*	1) Enter: 32*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Officer code + #	3) Enter: 02020202 #
4) Enter: 4 (Function Number) + #	4) Enter: 3 #
5) Enter: 4 (Function Number) + #	5) Enter: 3 #

3.3 – Command 38: Setting the Duress Alarm Feature

The model 6128/6129 lock has an optional duress, or silent alarm, option. The optional duress module must be connected to the lock and your alarm system for this feature to work.

Using the Duress Alarm Feature

To send a duress alarm to the alarm center, enter a User Code that is one number higher or lower on the last digit of a User's normal PIN Code and press the # key.

For example, if the normal User Code is 123456 for PIN position 02, the User can activate the duress alarm by entering 02123455 or 02123457, followed by #. If the User Code ends in 0, use 1 or 9 to activate the duress alarm. The lock will operate normally when a Duress code is entered.

All User Codes can send the duress signal at any time. It can also be sent during programming sequences.

Enable the Duress Alarm Feature

After the lock is installed with the module, the duress feature must be enabled by performing the following steps:

Process	Create a code in pin 12
1) Enter: 38*	1) Enter: 38*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: 1(function number) + #	3) Enter: 1 #
4) Enter: 1(function number) + #	4) Enter: 0 #

Enable the Duress Alarm Feature

After the lock is installed with the module, the duress feature must be enabled by performing the following steps:

Process	Create a code in pin 12
1) Enter: 38*	1) Enter: 38*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: 0(function number) + #	3) Enter: 0 #
4) Enter: 0(function number) + #	4) Enter: 0 #

3.4 – Command 42/43: Identifying the Type of Lock /Lock Mechanics

At times, a service technician may need to know the type of lock is mounted on the safe door.

To identify the lock type, perform this step:

Enter 42* on the keypad and listen for the beeps. (Low - >High-> Low [pause] High = A-Series Lock)

To identify the lock type, perform this step:

Enter 43* on the keypad and listen for the beeps. Use the table below to determine the type of lock.

Beep Set	Number of Beeps	Number of Beeps	Number of Beeps
1st set (low pitch)	1	1	1
2nd set (high pitch)	1	1	1
3rd set (low pitch)	1	1	1
4th set (high pitch)	3	4	1
Type of Lock	6128: Deadlocking Bolt	6129: Push/Pull Bolt	6106: Pivot Bolt

3.5– Commands 45/54: Service Mode Initialization (Single and Multiple):

To successfully operate the lock in Service Mode, the lock must first be initialized. A keypad extension with touch key reader must be connected to the lock. Lock initialization requires a management touch key prepared by the primary service company's LMS system. This touch key will have been prepared for either single or multiple mode. It is important for the key provider to advise whoever is performing initialization at the lock which mode is being used.

The management touch key is used in conjunction with a keypad command to initialize the lock. Lock initialization can only be completed after the date and time are set. If initialization is attempted before time and date are set, the lock will sound 2 sets of 2 long beeps (braps). Always use local standard time at the lock's location. Adjust the time 1 hour back if lock location observes daylight savings.

The serial number used for the initialization process is maintained in the lock firmware. The serial number cannot be change. If the key is programmed with the incorrect serial number when trying to utilize the single initialization process, the lock will fail to initialize. The key is not programmed with serial number information when performing the multiple initialization process.

To initialize multiple locks (Command 45):

- 1) Set the date & time using the 73* command and 78* command.
- 2) Snap the Management touch key into the keypad extension receptacle.
- 3) Enter: 45* 00123456 # (default Programmer Code or the current Programmer Code).
- 4) The Amber "Mode" light on the keypad extension base will remain lit during the initialization process.
- 5) Upon the successful initialization, the Green "Status 1" indicator will flash and the keypad will emit three beeps. If the initialization fails the Red "Status 2" indicator will illuminate, and the lock will emit one long beep.

To initialize one lock (Command 54):

- 1) Set the date & time using the 73* command and 78* command.
- 2) Snap the Management touch key into the keypad extension receptacle.
- 3) Enter: 54* 00123456 # (default Programmer Code or the current Programmer Code).
- 4) The Amber "Mode" light on the keypad extension base will remain lit during the initialization process.
- 5) Upon the successful initialization, the Green "Status 1" indicator will flash and the keypad will emit three beeps. If the initialization fails the Red "Status 2" indicator will illuminate, and the lock will emit one long beep.

3.6 – Command 46: Setting Up the Time Delay Override Options

When the time delay feature is enabled, the A-Series lock can be programmed with a time delay override (TDO) feature that will allow a specific user to bypass the time delay countdown. The time delay override code must always be setup in PIN position 29.

There are two types of TDO available. TDO TYPE 1 requires that the time delay override code is entered within the first minute of the time delay countdown. In other words, a User must start the time delay countdown by entering their code. If the time delay override code is entered within the first minute, then the lock will open.

Delay override feature must be made during the opening window. If a time delay value has already been entered, then any changes notes below:

TDO TYPE 2 will allow the lock to be opened by the time delay override code without requiring another User start the time delay countdown.

NOTE:

If a time delay value has already been entered, then any changes to the time delay override feature must be made during the opening window.

Set time delay override

If the time delay has already been set, enter a User Code to start the time delay. When the time delay expires (the lock emits 10 rapid beeps) and the opening window has begun, immediately proceed to change the time delay override by performing the following steps:

Process	Set TDO 0/1/2
1) Enter: 46*	1) Enter: 46*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Time Delay Override Type (0/1/2) + #	3) Enter: 0/1/2 #
4) Enter: Time Delay Override Type (0/1/ 2) + #	4) Enter: 0/1/2 #

The TDO TYPE 2 function has now been enabled. The code in position 29 can now be used to open the lock without waiting for the time delay countdown.

3.7 – Command 47: Setting Up the Time Delay

The 6128/6129/6106 can be programmed with a time delay feature. Time delay applies to Bank Users only. The time delay can be set from 0 to 99 minutes. The LED red light on the keypad flashes and a single beep sounds every 10 seconds as a reminder that the lock is in the time delay period.

To open the lock, a User must enter their User Code to start the time delay period, wait the length of the time delay period and then enter a valid User Code during the opening window.

If the lock is not opened during the open window, it resets, and the process must be restarted. The 6128/6129/6106 comes from the factory with no time delay set.

NOTES:

- 1) If the time delay has already been set, changes to the opening window and time delay duration can only be made during the opening window.
- 2) **IMPORTANT:** Do not set the time delay until you have finished all other programming functions, or you will have to wait through the time delay before making any other programming changes.

Set time delay duration

If the time delay has already been set, enter a User Code to start the time delay. When the time delay expires (the lock emits 10 rapid beeps) and the opening window has begun, immediately proceed to change the time delay by performing the following 6 steps:

Process	Set a 5-minutes time delay
1) Enter: 47*	1) Enter: 47*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Time delay Minutes (0-99) + #	3) Enter: 5 #
4) Enter: Time delay Minutes (0-99) + #	4) Enter: 5 #

3.8– Command 48: Setting Up the Opening window

When a time delay expires, the lock emits 10 rapid beeps to indicate that it can now be opened. This period of time is called the “opening window”. When the lock has entered it’s opening window, the lock will beep and the LED flashes twice every 10 seconds.

The opening window factory default is set for 2 minutes, and the opening window can be set from 1 to 10 minutes.

Changing the Opening window Duration

If the time delay has already been set, enter a User Code to start the time delay. When the time delay expires (the lock emits 10 rapid beeps) and the opening window has begun, immediately proceed to change the time delay by performing the following steps:

Process	Set a 5-minute opening window
1) Enter: 48*	1) Enter: 48*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Opening window Minutes (0-10) + #	3) Enter: 5 #
4) Enter: Opening window Minutes (0-10) + #	4) Enter: 5 #

3.9 – Command 57: Microcontroller Reset

This command is used to reset the microcontroller inside the lock without removing power. Simply press 5 7 *. The keypad extension LEDs will all flash momentarily. No code or programming information in the lock will be altered.

3.10 – Command 73: Set Date - Bank Mode Only

The date should be entered in DDMMYY format, where DD = day, MM = month, and YY = year. The Date should be set prior to initializing the lock for Service Mode use. To set the date, perform the following steps:

Process	Set a date of January 18, 2022
1) Enter: 73*	1) Enter: 73*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Officer code + #	3) Enter: 02020202 #
4) Enter: Date(ddmmyy) + #	4) Enter: 180122 #
5) Enter: Date(ddmmyy) + #	5) Enter: 180122 #

3.11 – Add or Delete Code Positions

74 command: Add a New User Position

To add User positions, perform the following steps:

Process	Create a code in pin 12
1) Enter: 74*	1) Enter: 74*
2) Enter: Officer Code + #	2) Enter: 02020202 #
3) Enter: A valid second code + #	3) Enter: 10101010 #
4) Enter: A new 8-digit code + #	3) Enter: 10101010 #
5) Enter: Confirm 8-digit code+ #	5) Enter: 10101010 #

We recommend that each User change his or her PIN Code using Command 22.

74 command: delete a User

To delete user positions, perform the following steps:

Process	Delete a code in pin 12
1) Enter: 74*	1) Enter: 74*
2) Enter: Officer Code + #	2) Enter: 02020202 #
3) Enter: A valid second code + #	3) Enter: 10101010 #
4) Enter: User position + #	4) Enter: 12 #
5) Enter: User Position + #	5) Enter: 12 #

75 command: Add a New User Position

To add User positions, perform the following steps:

Process	Create a code in pin 13
1) Enter: 75*	1) Enter: 75*
2) Enter: Officer Code + #	2) Enter: 02020202 #
3) Enter: empty pin position + #	3) Enter: 13 #
4) Enter: A new 8-digit code + #	4) Enter: 13131313 #
5) Enter: Confirm 8-digit code+ #	5) Enter: 13131313 #

We recommend that each User change his or her PIN Code using Command 22.

76 command: delete a User

To delete user positions, perform the following steps: To add User positions, perform the following steps:

Process	Delete a code in pin 13
1) Enter: 76*	1) Enter: 76*
2) Enter: Officer Code + #	2) Enter: 02020202 #
3) Enter: pin position + #	3) Enter: 13 #
4) Enter: #	4) Enter: #
5) Enter: #	5) Enter: #

We recommend that each User change his or her PIN Code using Command 22.

NOTES:

- 1) The **74 command** (Add and Delete) code process require the input of a second valid combination.
- 2) The **75 command** (Add) code process does not require the input of a second valid combination.
- 3) The **76 command** (Delete) code process does not require the input of a second valid combination

3.12– Command 77: PIN Position Verification

Use this code to verify that a User has been assigned to a PIN position. For example, it will tell you whether PIN 07 has a PIN Code in this position.

Step 1. Enter: **77***

Step 2. Enter: PIN position to be verified and #

One brap (long beep) means the pin position is empty. One low (short beep) means the pin position is filled.

Pin position response

77* 00#	1 low	Filled
77* 01#	1 Brap	Empty
77* 01#	1 low	Filled

3.13– Command 78: Set Time – Bank Mode Only

The time should be set in HHmm format based on a 24-hour clock, where HH = hours and mm = minutes. The time should beset prior to initializing the lock for Service Mode use. The time is to always be set in the local standard time for use in Service Mode. Local standard time must be set even though daylight savings time may be in effect. To set time perform the following steps:

Process	Set 5:45 PM
1) Enter: 78*	1) Enter: 78*
2) Enter: Programmer Code + #	2) Enter: 00123456 #
3) Enter: Officer Code + #	3) Enter: 02020202 #
4) Enter: Standard Time (mmhh) + #	4) Enter: 1745 #
5) Enter: Standard Time (mmhh) + #	5) Enter: 1745 #

3.14 – Command 79: Firmware verification

This command allows field personnel allows the field personnel to assess the version of firmware the lock has been programmed.

3.15 – Command 82: Status Check

This command allows field personnel to place a touch key (user of manager key) onto the keypad extension and input 8 2 *. The lock will write an audit trail event to the touch key indicating the lock ID and current time/date stored in the lock. The lock will emit 3 beeps after writing the even to the key.

If the 8 2 * command is used with a touch key that is disabled, the lock will emit 2 low beeps, but will still write the event to the touch key and then emit 3 standard beeps.

If the 8 2 * command is used with a touch key that is not formatted for the system to which the lock belongs, the lock will emit 4 low beeps, but will still write the event to the touch key and then emit 3 standard beeps.

Enter: 8 2 * Wait for the lock to emit 3 standard beeps before removing the touch key.

3.16 – Command 83: Disable Time Delay Override

If you do not want the Time Delay Override (TDO) function available, it can be permanently disabled, and all of the time delay override commands will no longer work.

NOTES:

Once the TDO features have been disabled using command 83, there is no way to ever use time delay override with the lock changes window.

Once the Programmer code has been changed, TDO disable option is no longer available.

Disable time delay override

Process	Set a 5-minutes time delay
1) Enter: 83 *	1) Enter: 83**
2) Enter: Programmer Code + # ▯ ▯ ▯ ▯ ▯	2) Enter: 00123456 # ▯ ▯ ▯ ▯ ▯
3) Enter: 1 (confirm TDO disable) + # ▯ ▯ ▯	3) Enter: 1 # ▯ ▯ ▯
4) Enter: 1 (confirm TDO disable) + # ▯ ▯ ▯	4) Enter: 1 # ▯ ▯ ▯

3.17 – Command 90: Lock Serial Number Verification

The A-Series lock serial number can be audibly retrieved when visual indicators are not available. The lock will give a low beep for the number 0 and 1 beep counting up any number great than 0. The lock will pause between each number. You can verify the lock serial number using the following process.

Enter: 90* on the lock keypad.

LSN: 50013968

5	5 high beeps
0	1 low beep
0	1 low beep
1	1 high beep
3	3 high beeps
9	9 high beeps
6	6 high beeps
8	8 high beeps

3.18 – Command 93: Aseal Code Verification

The A-Series lock's Aseal close code can be audibly retrieved when there is not any visual indicator available. The lock will give a low beep for the number 0 and 1 beep counting up any number great than 0. The lock will pause between each number. You can verify the lock serial number using the following process.

Enter: 93* on the lock keypad.

Aseal 103968

1	1 high beep
0	1 low beep
3	3 high beeps
9	9 high beeps
6	6 high beeps
8	8 high beeps

3.19 – Command 96: Battery Verification

The A-Series lock's Battery health can be audibly retrieved. The battery health is measured in terms Good, Should be Replaced and Bad.

- **Good** batteries indicates the lock is operating properly.
- **Should be replaced** means the lock is operating but batteries should be replaced soon.
- **Bad** indicates the lock is not operating properly and batteries must be replaced before continuing.

You can verify the lock's battery health serial using the following process.

Enter: 96* on the lock keypad

Battery health

3 beeps	Good
5 sets of 2 beeps	Should be replaced
20 beeps	Bad

3.20 – Command 97: Date Verification

The A-Series lock's time and date settings can be audibly retrieved when there is not any visual indicator available. The lock will give a series of low beep and high beeps that represent the lock format of DDMMYY HHmm. You can verify the lock time and date setting by using the following process.

Enter: 97* on the lock keypad

DATE:23/01/22 11:23 AM

23	2 low, 3 high
01	1 low, 1 high
22	2 low, 2 high
9	1 low, 1 high
11	1 low, 1 high
23	2 low, 3 high

3.21 – Command 00: Manual secure mode.

The A-Series lock can be configured to operate a "Manual Secure Mode." IN this mode, it requires the user to enter the 00# to obtain bolt extension after a successful bolt retraction. The mode is intended to mimic the operation of a manual dial lock. To set the lock in manual secure mode, use the following process.

Process	Set mode on/off
1) Enter: 00*	1) Enter: 00*
2) Enter: Programmer Code + # ♪♪♪♪	2) Enter: 00123456 # ♪♪♪♪
3) Enter: 1/0 (on/off) + # ♪♪	3) Enter: 1/0 (on/off) + # ♪♪
4) Enter: 1/0 (on/off) + # ♪♪	4) Enter: 1/0 (on/off) + # ♪♪

4– Service Mode Operation

Service mode operations require the input of a Service User's four-digit PIN code, an eight-digit operation code, and presentation of a valid Service touch key. The presentation of the PIN, operation code, and the touch key must be made to the lock during the date and time window specified by the system operator when the operation code was generated. This operation is setup using the Lock management system (LMS).

4.1 Service Mode Operation Process

The process below can be utilized by User (black keys) or Managers (red key) code:

- 1) User places their touch key in reader.
- 2) User inputs their four-digit PIN and presses the # key.
- 3) User inputs the eight-digit operation code and presses the # key.
- 4) Lock illuminates Amber "Mode" indicator during processing of code.
- 5) If the operation is verified and allowed by the lock, the response will be three Green "Status 1" indicator flashes along with three beeps. If the request is denied, the Red "Status 2" indicator will be used in conjunction with a beep pattern to indicate code failure. Reference Beep Patterns to identify the failure condition.
- 6) User removes touch key.

4.2– Service Mode Operation Codes

Service Mode operation codes may only be generated by the Lock Management System for locks that have been previously initialized. The operation codes are eight digits in length and will be valid for only one use. If the operation code is not used, the code will expire at the end of the time window specified by the operator of the Lock Management System at the time the code was generated.

Each operation code is specific to the lock being addressed, the user, his four-digit PIN code, the touch key being presented, the request being made, and the date and time the code is valid.

4.3– Open Lock:

The lock management software can create an eight-digit code that are valid for only one use at the specified lock within the specified time window (15 min, 4 hr., 8 hr., 12 hr., expires at midnight). The user will need to be in front of the lock within the time window for which the code was created. If the lock has been set into dual control operation, the lock will require two user keys and two user codes to gain access.

Open lock Single Control

- 1) User places touch key in reader.
- 2) User inputs four-digit PIN and presses the # key.
- 3) User inputs the eight-digit operation code and presses the # key.
- 4) Lock illuminates Amber "Mode" indicator during processing of code.
- 5) Lock indicates successful result with Green "Status 1" and three beeps.
- 6) Lock unlocks and User may open the door.
- 7) When the door is closed, the bolt will extend * and the lock prompts the user to present the touch key to capture the secure code.
- 8) User places touch key in reader. Lock indicates successful transfer of "secure" code to touch key with Green "Status1" indicator and three beeps.
- 9) User removes touch key.

Open lock Dual control

- 1) User 1 places touch key in reader.
- 2) User 1 inputs four-digit PIN and presses the # key.
- 3) User 1 inputs the eight-digit operation code and presses the # key.
- 4) User 1 remove key.
- 5) User 2 places touch key in reader.
- 6) User 2 inputs four-digit PIN and presses the # key.
- 7) User 2 inputs the eight-digit operation code and presses the # key.
- 8) Lock illuminates Amber "Mode" indicator during processing of code.
- 9) Lock indicates successful result with Green "Status 1" and three beeps.
- 10) Lock unlocks and User may open the door.
- 11) When the door is closed, the bolt will extend * and the lock prompts the user to present the touch key to capture the secure code.
- 12) User places touch key in reader. Lock indicates successful transfer of "secure" code to touch key with Green "Status1" indicator and three beeps.
- 13) User removes touch key.

NOTES:

- 1) The recommended procedure is for the User to leave the touch key in the reader for the duration of the open and securing of the door or to place the touch key back in the reader prior to securing the door.
- 2) If the lock has been configured into manual secure mode, the user will need to enter 00# on the keypad to obtain bolt extension.
- 3) Dual control service mode requires a lock initialized with the dual control initialization option when programming the manager key.

4.4 – Program Bank Features:

This is a management only operation code that is used to set the bank operational features of the lock. This code does not open the lock.

- The programmable features that may be set with this code are:
- Bank mode enabled or disabled.
- Time window of operation for bank users if enabled.
- Access to audit log through bank operations.

Once the lock's bank mode process has been enabled, you will be able to open the lock using a valid officer, administrator or user code.

4.5 – Download Audit Log:

This is a management only operation code that is used to download the audit log of the lock. This code does not open the lock. The lock's entire audit log is transferred to the touch key for uploading and reporting at the Lock Management System.

Example

- 1) User places his management touch key in reader.
- 2) User inputs his four-digit PIN & and presses the # key.
- 3) User inputs the eight-digit operation code and presses the # key.
- 4) Lock illuminates Amber "Mode" indicator during processing of code.
- 5) The Amber "Mode" indicator will remain illuminated during the transfer of the audit data to the touch key. This step takes approximately 15 seconds.
- 6) At the successful completion of the audit data transfer the lock will flash the Green "Status 1" indicator and emit three audible beeps.
- 7) User removes touch key.

4.6– Reset User Touch Key:

This operation code may be created for Users and Management Users to reset the users touch key if the user did not successfully capture the "secure" code from the previous transaction. This code does not open the lock.

4.7 – Using the Duress Alarm Feature:

The optional duress module must be connected to the lock and your alarm system for this feature to work. A duress alarm is sent by entering a valid 5-digit PIN and entering the 4th PIN digit twice, followed by any valid operation code. If your PIN is 1234 and your operation code is 12345678, you would enter 12344# 12345678#. This would send the duress signal, store a duress event in the touch key audit trail, and store a duress event in the lock audit trail.

4.8 – Set Clock Calendar with Manager Key:

This is a management only operation code that is used to reset the clock calendar setting inside the lock. This code operates under specific parameters that are detailed in the Lock Management System instructions. When this code is used, the lock will derive the date information from the management touch key, however the time must be input through the keypad by the user. The time should be set in HHmm format based on a 24-hour clock, where HH = hours and mm = minutes. It is important to note that the time to be set is the local standard time at the lock location. This code will not open the lock.

Example

- 1) User places his touch key in reader.
- 2) User inputs his four-digit PIN and presses the # key.
- 3) User inputs the eight-digit operation code and presses the # key. Lock illuminates Amber "Mode" indicator during processing of code.
- 4) At the successful completion of the processing the lock will flash the Green "Status 1" indicator and emits five audible beeps.
- 5) User inputs new time on keypad in HHmm format and presses the # key
- 6) Lock responds with Green "Status 1" indicator and emits three audible beeps.
- 7) User inputs time on keypad (HHmm) and presses the # again to confirm
- 8) Lock responds with Green "Status 1" indicator and emits three audible beeps.

4.9–Set Clock Calendar No Key:

This is a management only operation code that is used to reset the clock calendar setting inside the lock. This code operates under specific parameters that are detailed in the Lock Management System instructions. When this code is used, the lock will derive the date information from the the code. The User will need to input the time using the keypad. The time should be set in HHmm format based on a 24-hour clock, where HH = hours and mm = minutes. It is important to note that the time to be set is the local standard time at the lock location. This code will not open the lock.

Example

- 1) User inputs his five-digit PIN and presses the # key
- 2) User inputs the twelve-digit operation code and presses the # key.
- 3) Lock illuminates Amber "Mode" indicator during processing of code. At the successful completion of the processing the lock will flash the Green "Status 1" indicator and emits five audible beeps.
- 4) User inputs new time on keypad in HHmm format and presses the # key. Lock responds with Green "Status 1" indicator and emits three audible beeps.
- 5) User inputs time on keypad (HHmm) and presses the # again to confirm. Lock responds with Green "Status 1" indicator and emits three audible beeps.

4.10– Reset Lockout:

This is a management only operation code. This operation is used to reset the lock once it is set in a lockout mode due to excessive unauthorized attempts to operate the lock with invalid operation codes or bank user PIN codes. This code will not open the lock.

4.11– Revoke Dispatcher:

This is a management only operation code that is used to transfer the identity of a subcontractor system to the locks table in order to prevent the subcontractor from performing any subsequent operations at the lock. This code will not open the lock. To reinstate the revoked dispatcher requires an "Add Dispatcher" command.

4.12– Add Dispatcher:

This is a management only operation code that is used to reset the privileges of a subcontractor system that was previously revoked using the revoke a dispatcher code. This code will not open the lock.

4.13– Un-install Lock:

This is a management only operation code that is used to return the lock to its default Bank Operating Mode. Once this operation code is successfully performed, no new Service Mode operations are possible until the lock is initialized for Service Mode again. Once the lock has been uninstalled, you will be able to open the lock using one of the default officer or user codes.