

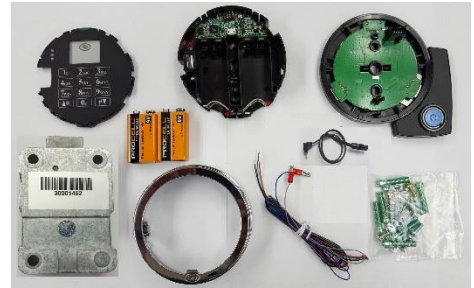
Installation Instructions for: Model 3028 / 3029 A-Series™ with Display

- For **English** language instructions, please go to website location: Website: www.sargentandgreenleaf.com/ASeriesWithDisplay/
- Für Anweisungen auf **Deutsch** besuchen Sie bitte die folgende Website: www.sargentandgreenleaf.com/ASeriesWithDisplay/
- Pour obtenir les instructions en **français**, veuillez consulter le site ci-dessous : www.sargentandgreenleaf.com/ASeriesWithDisplay/
- Para obtener instrucciones en **español**, visite la siguiente página web: www.sargentandgreenleaf.com/ASeriesWithDisplay/

Step 1: Open the Box

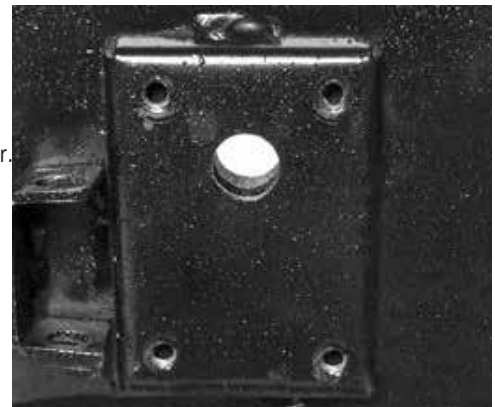
Open the S&G A-Series™ with Display Lock box and make sure that you have the following components...

- | | | |
|-----------------------|---|--------------------|
| ○ Lock (3028 or 3029) | ○ Electronic Dial Ring w/Blue Dot Reader | ○ Keypad Bezel |
| ○ Lock Cable | ○ Bolt Position Indicator / Door Switch Wires | ○ Keypad Base |
| ○ Keypad | ○ Mounting Hardware / Screws | ○ (2) 9V Batteries |



Step 2: Check Mounting Location

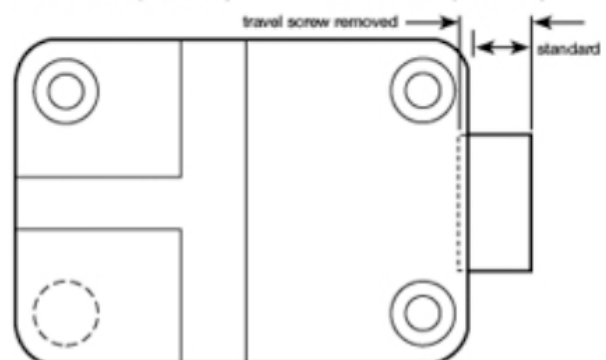
- This lock can be mounted to a storage unit of any material, provided the lock is electrically grounded and the mounting surface is sufficiently sturdy.
- The mounting surface should be smooth and flat, with either ¼ – 20 or M6 mounting screw holes.
- The wire channel (spindle hole) through the safe door must be at least .312 inch (7.9 mm) in diameter.
- **NOTE:** The holes should clear of sharp edges or burrs which could damage the lock cable.



Step 3: Adjust Bolt Throw if Required (3029 only)

- Determine the bolt throw required for your application.
- If it's more than 0.46" (11.7 mm), remove the bolt travel adjustment screw and add a 0.075" (2 mm) spacer (not included) to the end of the lock bolt when attaching the safe's boltwork to the lock bolt.

Standard bolt extension:	Travel screw removed:
Locked = .461" (11.71 mm)	Locked = .461" (11.71 mm)
Unlocked = 0 (flush with case)	Unlocked = -.08" (-2 mm) (recessed)
Throw = .461 (11.71 mm)	Throw = .54" (13.71 mm)



Step 4: Place the Lock Cable into the Recessed Channel

- The lock cable should be routed through the recess under the lock case and on through the safe's spindle hole to the keypad.
- The cable is routed around the end of the lock and through the recessed channel, where it will make a 90 degree bend before running through the safe's spindle hole to the keypad.



Step 5: Plug the Cable into the Lock

- It is necessary to plug the provided cable into the lock. This is a connector that will only insert one way. Make sure that the cable is fully inserted and locked into the lock case receptacle.



Step 6: Mount the Lock

- Insert the lock cable through the spindle hole and gently pull it from the front of the safe as you place the lock body against the mounting surface.
- After making sure the cable is protected within the lock's recessed channel, and not crimped or stressed at any point, attach the lock body to the mounting surface, using the screws provided.
- Tighten the mounting screws to 30 to 40 inch pounds (33.9 to 45.2dNn)
- Make sure there is a minimum clearance of 0.150 inch (3.8mm) between the end of the lock case and the blocking bar of the safe's boltwork.



Step 7: Connect Keypad Housing to Electronic Dial Ring

- Align the large plastic connector and boss on top of the electronic dial ring. Make sure that the connector and hole on the back of the keypad housing gently fit together until it "snaps" into place.
- From the back of the assembly, insert one (1) of the Philips plastic screws.



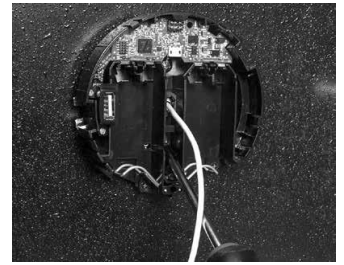
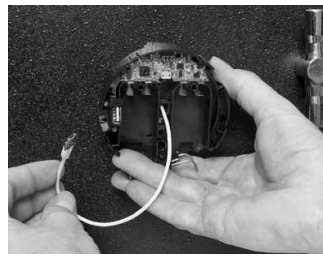
Step 8: Reposition the Blue Dot Reader (optional)

The Blue Dot reader can be oriented in one of three positions around the keypad housing. If an orientation different from the default orientation is desired, remove the two (2) screws securing the reader on the back of the keypad. In the new reader position, remove the small plastic cover by releasing the snaps with a small screwdriver. Use the cover that was removed to replace the original cover position (that is now left open). Move the Blue Dot reader to the new position and secure with the two (2) screws.



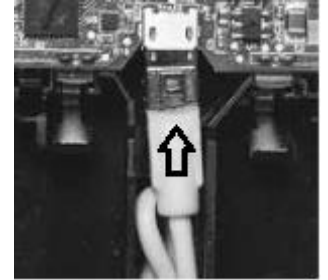
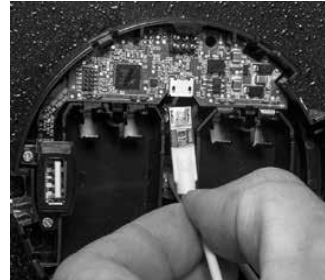
Step 9: Attach the Keypad Base

- From the outside of the safe door, bring the lock cable through the center hole in the mounting base.
- Pulling gently on the cable, move the keypad base against the safe door, and attach it using the two screws provided.
- Fasten the base to the safe door using either the silver colored 8-32 machine (silver color) screws or the tinted pair of M4 screws (tinted) whichever is appropriate for the prepared holes in the safe door.
- Do not tighten beyond 15 inch-pounds (1,695 Nm).



Step 10: Plug Cable into the Keypad

- Plug the lock cable into connector on the PCB
- Ensure the arrow on the plug is facing up.



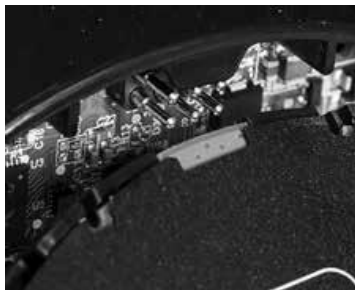
Step 11: Tuck the Cable into the Recessed Channel

- Place the lock cable into the recessed area.
- The excess cable should be folded and placed into the channel shown at right. Ensure that no part of the cable extends above the wall of the channel, since that will interfere with the keypad placement.



Step 12: Place Keypad onto the Keypad Base

- Keeping the lock cable in its compartment, place the keypad onto the base. The top seats into the base first, then the bottom.
- Carefully lower the top of the keypad so that the light green area slides between the gold pins and the black plastic tab. Take care not to bend the six gold pins. DO NOT use excessive force to insert the keypad.



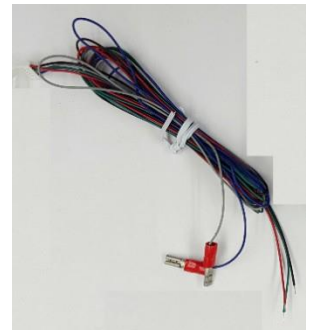
Step 13: Battery Installation

- Open clips as shown below and prepare to insert the 9-volt batteries. Once the batteries are inserted, press the clip to the closed position. The battery clip will not latch if battery is inserted backward.
- **NOTE:** The "+" on the 9V battery (small contact) and position it to match the "+" on the Keypad base.



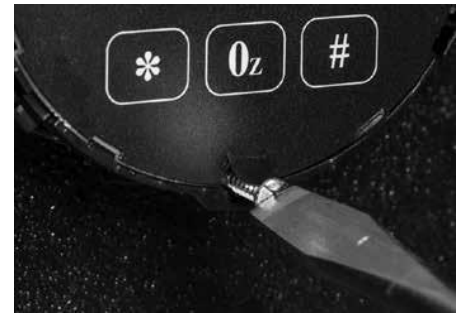
Step 14: Door Switch / BPI Indicators (optional)

- If the door switch wires or the bolt indicator wires are to be used, connect the 5-conductor cable to the mating 5-conductor connector on the side of the lock.
- The outputs for this cable are
 - BLUE–Door Switch A
 - GRAY–Door Switch B
 - BLACK–BPI common
 - GREEN – BPI normally open
 - RED– BPI normally closed
- NOTE: This is a latching connector and the latch must be disengaged to remove the cable.



Step 15: Verify Lock Function

- To open the lock, use the factory setting for PIN position 10, with PIN Code 101010. Enter: 10101010 # and the lock will open. (If lock does not open compare beep patterns heard after pressing the # key, within the operations guide).

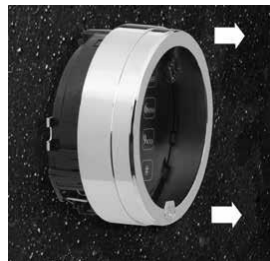


Step 16: Install One Way Screw (optional)

- If a tamper evident installation is desired (such as a VdS installation), install and tighten the keypad security screw as shown.
- If a tamper evident keypad is not required, then no securing screw is required.
- NOTE: The security screw cannot be removed without noticeable damage to the keypad. Please make sure everything is working as expected before installing this screw.

Step 17: Place Chrome Ring over the Base

- Align the Chrome Ring as shown and press down over the base.
- For future access to batteries, the Chrome Ring can be lifted to expose batteries.



STEP 18: Program Lock

- (See Operating Instructions)



IMPORTANT: Test the lock function at least three times with the door open before closing the safe door!!!

3028 / 3029 Specifications

Attaching Screws: Use only the screws provided with the lock. They must engage the mounting plate by at least four full threads. Do not use lock washers or thread sealing compounds.

Recommended Attaching Screw Torque: 30 to 40 inch-pounds (33.9 to 45.2 dNm) for the lock body. No more than 15 inch-pounds (1.695 Nm) for the keypad base attaching screws.

Minimum Lock Cable (Spindle) Hole Diameter: 0.312 inch (7.9 mm)

Maximum Lock Cable (Spindle) Hole Diameter: 0.406 inch (10.3 mm)

Lock is designed to Move: **3028 LOCK** – 0.0 lbs (0 N)

3029 LOCK – 2.25 lbs (10 N) / maximum intermittent load must not exceed 5.5 lbs (25 N)

Lock Bolt Maximum Free Movement: 0.352 inch (8.95 mm) / 0.109 inch outside the edge of the lock case

Maximum Bolt End Pressure: lock is designed to withstand at least 225 lbs. (1000 Newtons)

Maximum Bolt Side Pressure: safe and container boltwork or locking cam designs must never apply more than 225 lbs. (1000 Newtons) of side pressure on the lock bolt.

Mounting Environment: The lock body is designed to be mounted inside a secure container. The container must be constructed to offer protection against physical attack directed at the lock. The amount of protection is dependent on the desired level of security for the system as a whole. Lock protection may include barrier materials, relock devices, thermal barriers, thermal relock components, or any combination of these. Relock device attaching screws must NOT be longer than the depth of the tapped hole provided in the lock case. Security relevant parts of a high security lock should not be accessible to unauthorized persons when the door of the secure storage unit to which it is fitted is open. A minimum distance of 0.150 inch (3.8 mm) is recommended between the end of the lock case and the closest approach of the safe's blocking bar or cam plate (which is normally blocked by the extended lock bolt). Maintaining this clearance will allow the lock to deliver optimum performance.

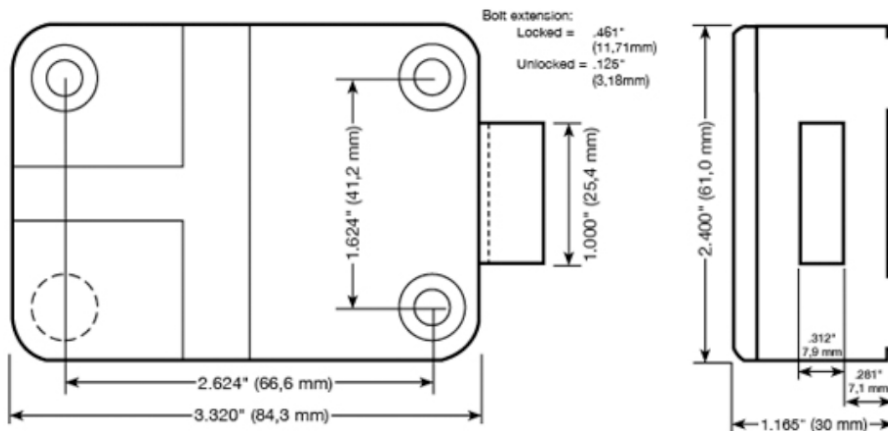
Code Restrictions: Personal data that can be related to a code holder, such as a birth date, street number, or phone number, should not be used in creating a lock code. Avoid codes that can be easily guessed (such as 123456 or 111111). The lock's factory default code must be changed to a unique, secure code when the lock is put into operation by the end user.

Note: Every installation of this product must comply with these requirements and those in the product installation instructions to qualify for the manufacturer's warranty and to comply with EN1300 requirements. The length of any external cabling used for this product must not exceed 3 meters in length. Use of cabling exceeding 3 meters may void product certifications.

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IMPORTANT DIMENSIONS . . .



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