

Installation Instructions

Nexus IP

3006-5xx, 3007-5xx



SARGENT AND GREENLEAF®



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GENERAL NOTES

The audit features, peripheral devices and accessories, software features, one-time code functionality, USB functionality, wireless functionality, remote functionality, duress alarm, and other additional features are beyond the scope of the UL 2058 standard and not part of the UL Listing

To maintain UL Listing, the Lock can only be opened by the 8 digit User Code at the physical keypad.

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: 0.375 inch (9.5 mm)

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

Lock is designed to Move: 3006 Lock – 0.0 lbs (0 N)

3007 Lock – 2.5 lbs (11.12 N) continuous / 10 lbs (44.48 N) maximum

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.

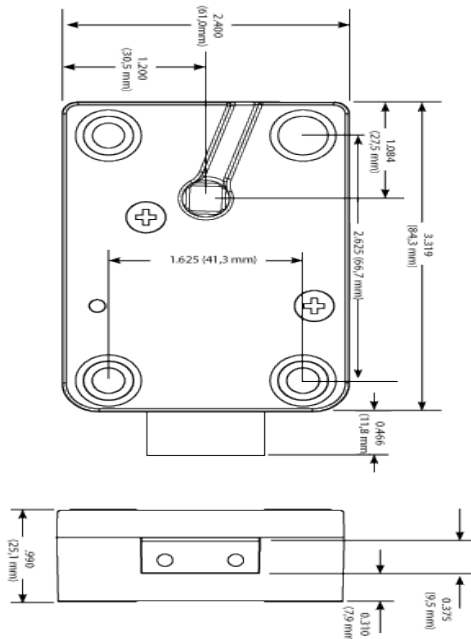
Mounting Environment: The lock body is designed to be mounted inside a secure container. The container must be constructed to offer protection against physical attack directed at the lock. The amount of protection is dependent on the desired level of security for the system as a whole. Lock protection 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.

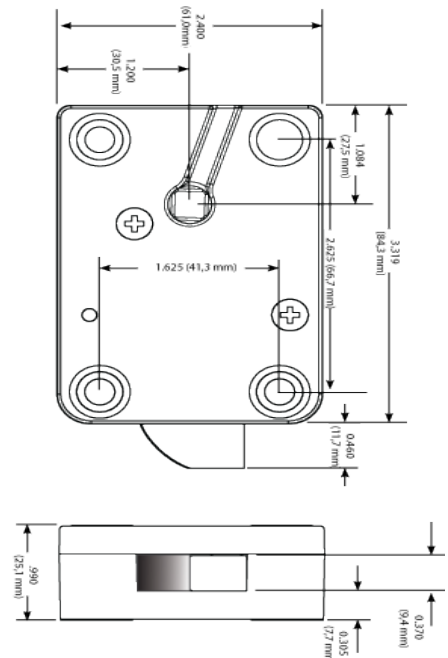
External Power Supply Requirements: Use only UL Listed / Recognized Category APHV / EPBU / QQQQ / QQQQ7 external power supply (such as model CUI INC P/N SW124-12-N-SC Rated 100-240VAC 0.6 A 50/60Hz Secondary Rated 12VDC, 2A) meeting the following specifications. Connectors and wires connecting power supply to lock must be UL Listed / Recognized. Voltage: 9 – 12 VDC Max Current: 2A

 If you enter a correct User Code and hear 5 double beeps when the lock opens, the system power is approaching an out of range condition. You will also see this icon on the screen.

3007 Direct Drive



3006 Pivot Bolt



1. Open the Box

In the S&G NexusIP Lock box, make sure that you have the following components...

- Lock Body
- Lock Cable
- Power plug
- Keypad Base with Wifi Module
- External Power cable
- Mounting Hardware / Screws
- Keypad
- Internal Power cable
- (2) 9V batteries



2. Installing universal/power cable



If you are using the internal cable for power, plug cable into the lock body before mounting. Please Review cable installation on page 5.

3. 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.



4. Plug the Cable into the Lock

The PivotBolt and Direct Drive locks are reversible, non-handed electronic safe locks. It is necessary to plug the provided cable into the lock. This is a connector that will only insert one way. Make sure it is fully inserted and locked into the lock case receptacle.



5. Place the Lock Cable into the Recessed Channel

The lock cable should be routed through the opening of the case and on through the safe's spindle hole to the keypad. No matter which side of the case is placed against the safe's mounting plate, the lock cable needs to be routed in the recessed channel in the lock's cover. 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.



6. Cut Spindle to Proper Length (3007 only)

Measure the safe door thickness. This is the dimension between the keypad mounting surface and the lock mounting surface. Add 1 1/8" (28.6 mm) to the door thickness and mark the length on the spindle. Carefully cut the spindle to this length, removing any burrs or rough edges.



7. Determine Which Direction Lock is to be Mounted

Either side of the lock case can be mounted against the safe door to accommodate the direction of movement of the blocking bar or cam plate of the safe's boltwork.



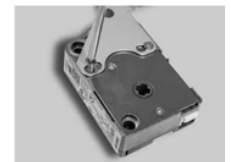
8. Mount the Lock

For 3007 locks, insert the spindle into the available slot on the lock case that is facing the container. Carefully route the wire into the spindle so that it will not be damaged when inserted into the spindle hole. Insert the lock cable / spindle (3007 locks) 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 45.2dNm) 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.



9. Relocking Option

If the safe incorporates a relock device plate, it will likely attach to the lock body as shown at right. If it attaches using the lock's covers screw, make sure the screws engage the lock by at least 4 threads. Substitute longer 8-32 machine screws if necessary. It may be necessary to trim longer screws to a proper working length. Relock device attaching screws must NOT be longer than the depth of the tapped hole provided in the lock case.



10. Check Lock Function

The lock cannot function properly if it binds against the safe's boltwork. The photo on the left shows boltwork in the fully locked position and placing pressure on the side of the lock bolt. It could prevent the lock from opening. (INCORRECT) In the photo on the far right, the boltwork bind has been relieved by removing a small amount of material from the right side of the blocking bar's bolt opening. When the boltwork is fully thrown to the locked position, there is clearance on all sides of the lock's bolt. This is the desired relationship. (CORRECT)



INCORRECT CORRECT

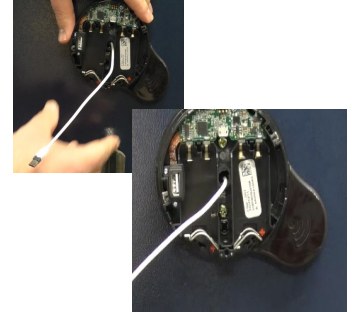
11. Reposition the Wifi Module (optional)

The Wifi Module 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 Wifi Module to the new position and secure with the two (2) screws.



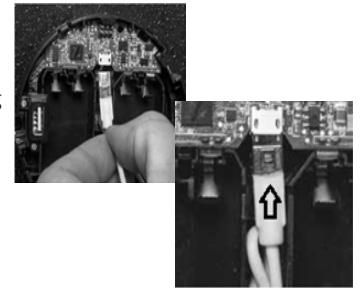
12. Attach the Keypad Base

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).



13. Connect Lock and Keypad Base

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



14. 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.



15. 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.



1. Power

If running the external power, plug cable into the wifi module then plug into wall. If running internal power, run cable through safe passage and plug into wall.



2. Verify Lock Function

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

3. 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.



4. Battery backup 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.



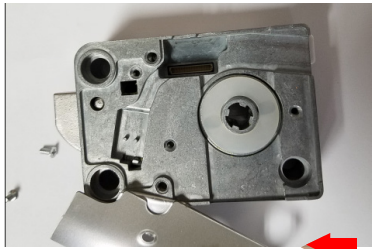
5. Install Ring

Place Chrome Ring over the Base Align the Chrome Ring as shown and press down over the base.

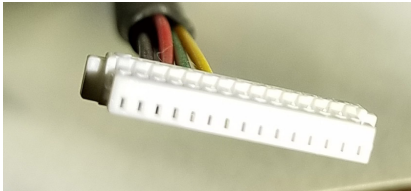


Intenal Power cable Installation

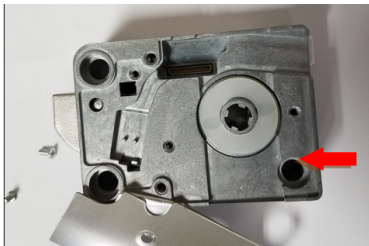
Place the lock case on its cover side. Remove the steel plate that covers the lock case by removing the three screws which hold it in place. This will require you to remove the screw under the sticker. When removing the steel plate to make sure the drive cam and white plastic washer stay in place. The area circled in RED is the location where this cable will be installed.



Observe the connector and its orientation. This will be important when plugging the connection into the lock. Line the plug and connector up so that they are in the same orientation.



Once the connection between the lock and cable is completed, the cable should be routed in the space provided. Once the metal cover is reattached, this routing will avoid the cable from being pinched. The cable should be routed as shown. Using the screws removed in the first step, replace the cover and tighten.



Internal Cable wiring for Duress/Remote Enable/Remote Disable/Power	
White Cable	Future Features
Brown Cable	
Yellow Cable	Common
Green Cable	Input 0-5 Volt
Red Cable	Open Drain output (200 milliamp continuous current)
Black Cable	10 kOHM pullup to sys Power
Blue Cable	Power (-)
Orange Cable	Power (+) 9- 12 volts DC/ 2 amps



External Cable wiring for Power	
Solid Black Cable	Power (-)
Black Cable with Dashes	Power (+) 9- 12 volts DC/ 2 amps

* - UL Rated 9 - 12VDC 2A Rated Supply

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