

INSTALLATION INSTRUCTIONS

Models 6120 and 6123

MOUNTING CONSIDERATIONS

- Sargent & Greenleaf 6120 series Motorized Electronic Combination Locks have been designed to use the same mounting screw locations and occupy the same space as a standard S&G 6730 mechanical lock. The 6120 series uses standard mounting dimensions to simplify retrofit in existing safes.
- The keypad diameter is 4 inches (101.6 mm). This is slightly greater than the diameter of standard S&G dial rings for mechanical locks. The 6120 series keypad will cover any scratches or paint blemishes left by the old lock.
- Modifications to the lock (including lock bolt attachments) are not recommended, and will void the manufacturer's warranty.
- A minimum distance of .150" (3.8 mm) is required between the end of the lock case containing the bolt and the safe's blocking bar or cam plate which is normally blocked by the extended lock bolt. The minimum clearance must be maintained throughout the entire travel of the blocking bar or cam plate. This is because the lock bolt may not be retracted quite as far by older batteries as by fresh ones.
- You should install fresh alkaline batteries in the keypad and connect the lock cable to check the functions of the lock prior to installation. The procedure for operating the lock on the factory default master code is given in the *operating instruction* booklet.
- **Do not allow the safe's blocking bar or cam plate to depress the electronic lock's bolt farther than it retracts during normal motor operation. This can lead to inconsistent lock operation.**
- For UL installations, the maximum number of user codes is one.



Note: This lock has been Listed by Underwriters Laboratories for use with the following S&G keypad(s): 6120-0XX, 6120-2XX, 6120-4XX, 6160-2XX (IP Series), 61KP-1XX

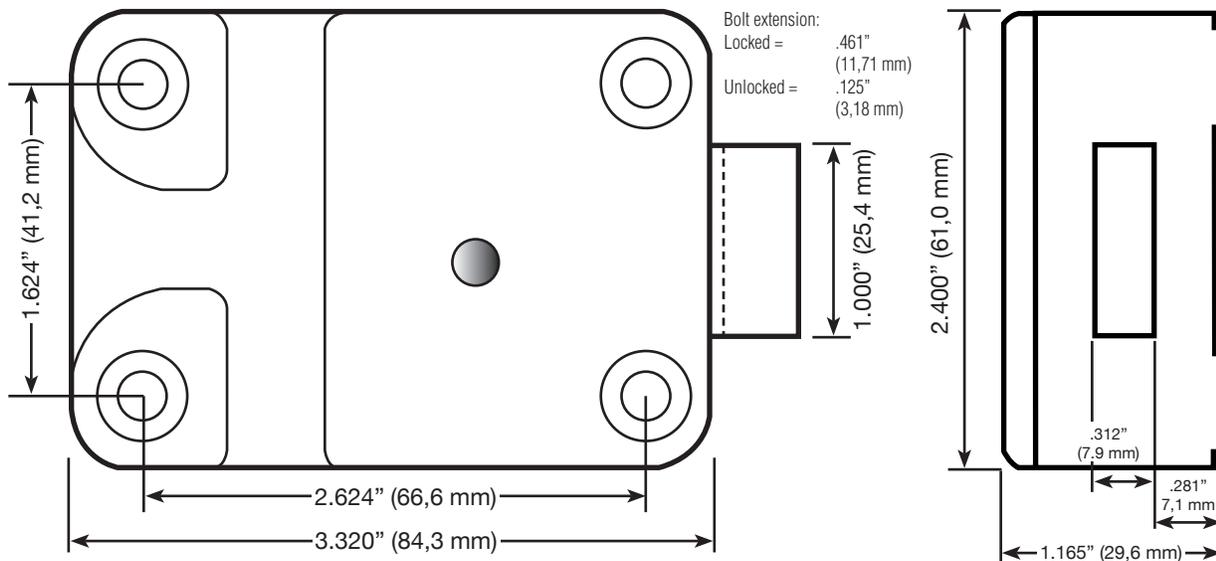
INSTALLATION NOTES . . .

Although the model 6120 series is easy to install, we recommend the following procedures be performed only by an experienced locksmith or safe technician. Your safe may incorporate relocking devices that are attached to the combination lock. Misalignment or detachment of these devices can result in a lockout—a condition where the safe cannot be opened without damage.

ADDITIONAL ITEMS YOU WILL NEED . . .

The 6120 series requires two 9-volt alkaline batteries (not included). We recommend fresh Duracell® batteries. Do not use old or partially drained batteries in your lock. New batteries will power your lock for approximately 8,000 openings when used without the time delay feature.

Many installations can be performed with nothing more than a medium phillips screwdriver. If the manufacturer of your safe has made external relock device attachments to the lock, specialized tools and knowledge may be required.



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Step 1

Remove the existing lock (if present). The mounting plate should be smooth and flat, with 1/4-20 mounting screw holes. The wire channel (spindle hole) must have a diameter of at least 5/16 inch.

The 6120 series can be mounted right-hand, left-hand, vertical-up, or vertical-down without any modifications or adjustments.



Step 2

Use a reamer or round file to remove any sharp edges from the wire channel (spindle hole) that might damage the wire cable.

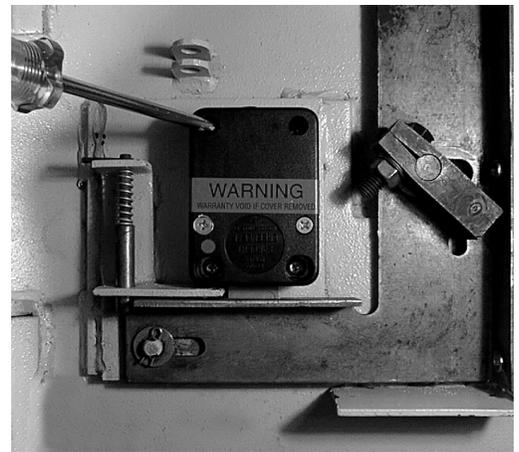
Run the connector through the wire channel. Gently pull the connector and all excess cable to the outside of the safe. Make sure the cable is not crimped or stressed at any point.



Step 3

Once you've made sure the wire cable is not crimped or in contact with any sharp surface, attach the lock to the safe's mounting plate. Use the four 1/4-20 (or metric M6) screws provided. Tighten securely so the lock is attached firmly to the plate.

The lock incorporates a bolt-through cover that allows mounting with the cover in place. Removing the cover voids the product warranty.



Step 4 (for safes with relock devices)

This is an installation that requires attachment of the safe manufacturer's relock device plate to the lock cover using the cover screws. If your situation is similar, be sure the thickness of the relock device plate(s) is not great enough to prevent the screws from engaging the lock case by at least four threads. If necessary, use longer 8-32 machine screws to insure proper fit.

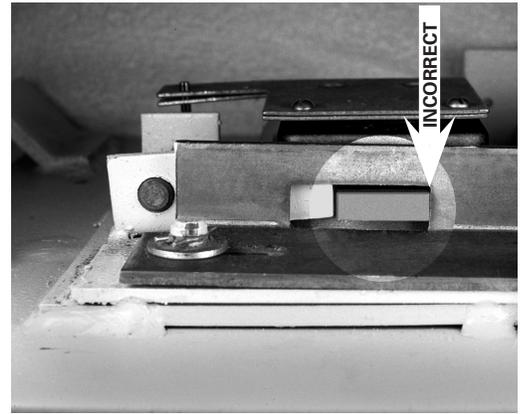
The photo also illustrates a required space of at least .150" (3.8 mm) between the end of the lock body and the blocking bar of the safe's boltwork.



Step 5

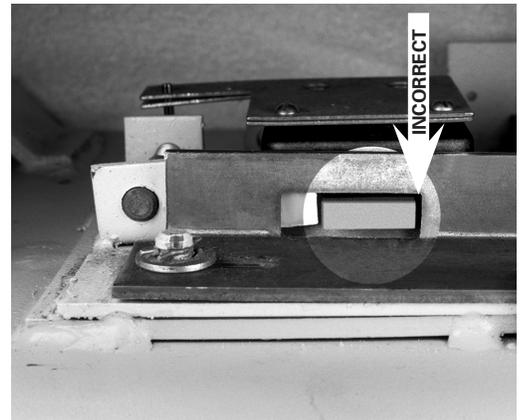
Make sure that the lock bolt does not bind against the safe's boltwork. 6120 series locks are sensitive to bolt end and side pressure. The safe's blocking bar or cam must not depress the lock's bolt farther than it retracts under normal motor operation. Check to make sure this doesn't happen when the safe handle is moved to retract the door bolts (unlock the safe).

This photograph shows boltwork in the locked position which places pressure on the side of the lock bolt. This could prevent the lock from opening properly.



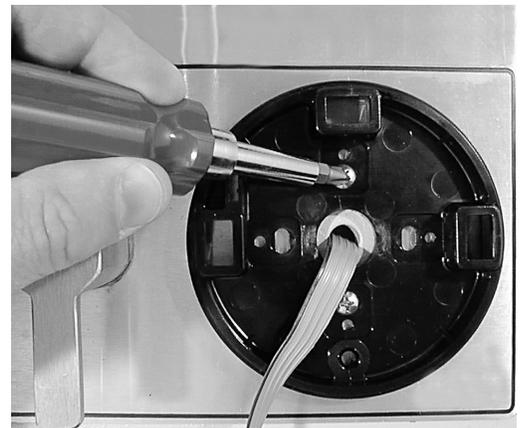
Step 6

The boltwork bind has been relieved by removing a small amount of material from the right side of the boltwork opening. When the safe's boltwork is fully thrown to the locked position, there is air space on all sides of the electronic lock's bolt.



Step 7

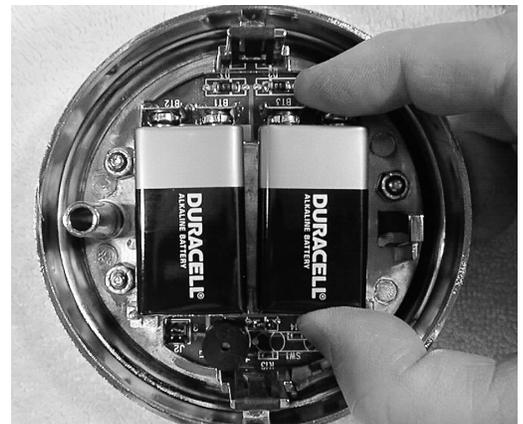
Run the connector and wire cable through the center hole of the mounting base. Then use the included 8-32 machine screws to attach the base to the safe door. The attaching screw holes will line up with those used for any standard S&G dial ring (excluding R132 key locking dial rings).



Step 8

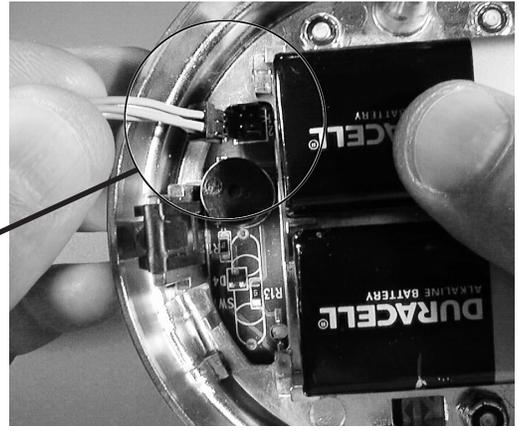
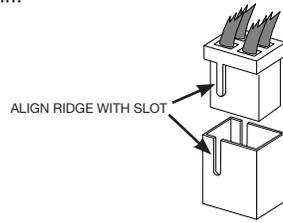
If your lock is equipped with a keypad that uses a single battery in a removable drawer, use the instructions that are packed with the keypad for its installation. The following instructions are for two-battery keypads.

Install a new 9-volt alkaline battery in each of the keypad's battery holders (Duracell® is recommended). Support the top of each holder as the battery is inserted. This will prevent bending or breaking the holder.



Step 9

The wire cable connector is shaped so that it will fit into the circuit board receptacle only when aligned correctly. Insert the connector into its receptacle in the keypad housing. If it does not slide easily into place, do not force it. This means you need to turn it 180° before attempting to insert it again.



Step 10

Make a loose coil of the excess wire cable. Hold the coil away from the three spring clips that will secure the keypad to the mounting base.



Step 11

Place the keypad over the base. Make sure the wire cable is still clear of the three spring clips, then push the keypad firmly onto the base. It should snap into place.



Step 12

The installation is complete. Refer to your lock's Operating Instructions for opening, code changing, time delay, and battery changing instructions.

Make sure your lock is fully operational before closing the safe door for the first time.

