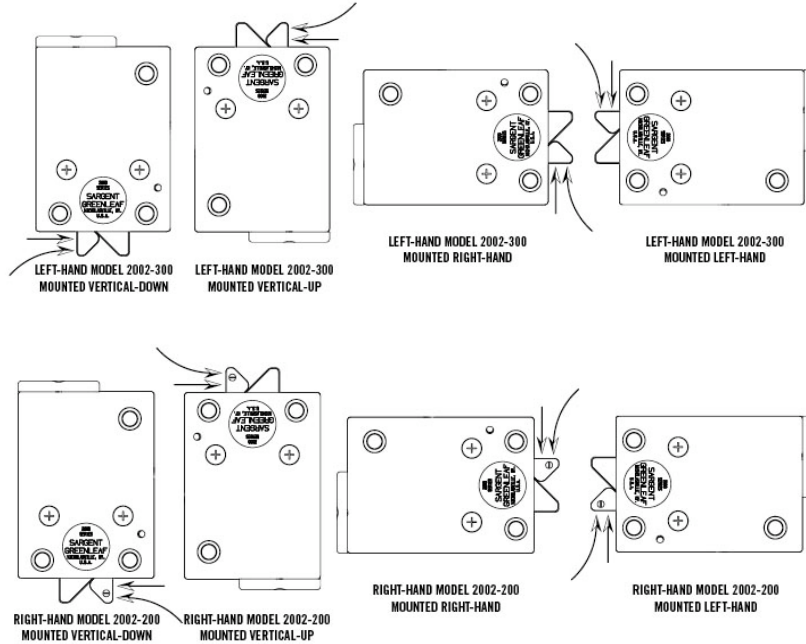


Installation Instructions for Z⁰² Rotarybolt™ Locks

The Z⁰² Rotarybolt™ lock is available in left-hand and right-hand models. You must select the correct hand for your application. The illustrations below show examples of all the standard mounting configurations, and will help you make the right lock choice. The arrows indicate the direction from which the safe's blocking bar or cam plate approaches the lock bolt.



1. The mounting surface should be smooth and flat, with either 1/4-20 or M6 mounting screw holes. The wire channel through the safe door must be at least .312 inch (7.9 mm) in diameter. Insert the lock cable through the wire channel and gently pull it from the front of the safe as you place the lock body against the mounting surface.



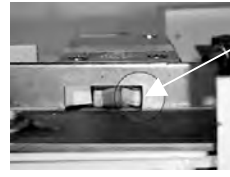
2. After making sure the cable is not crimped or stressed at any point, attach the lock body to the mounting surface using the screws provided. Tighten the mounting screws to 30 to 40 inch-pounds (33.9 to 45.2 dNm).



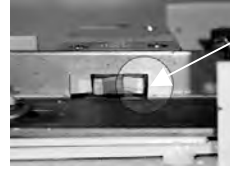
3. Make sure there is a minimum clearance of 0.150 inch (3.8 mm) between the end of the lock case and the blocking bar of the safe's boltwork.



4. If the safe incorporates a relock device plate, it will likely attach to the lock body as shown. If it attaches using the lock's cover screws, make sure screws engage the lock by at least four threads. Substitute longer 8-32 machine screws if necessary.



5. The lock cannot function properly if it binds against the safe's boltwork. This photo shows boltwork in the fully locked position, placing pressure on the side of the lock bolt. It could prevent the lock from opening.



6. In this photo, the boltwork bind has been relieved by removing a small amount of material from the right side of the blocking bar's bolt opening. Now when the boltwork is fully thrown to the locked position, there is air space on all sides of the lock's bolt. This is the desired relationship.

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7. Bring the lock cable through the center hole in the mounting base, then fasten the base to the safe door, using either the silver colored pair of 8-32 machine screws or the reddish colored pair of M4 screws, whichever is appropriate for the prepared holes in the safe door.



8. Place the keypad ring onto the base. Note that there is a spring-loaded tab at the top of the ring (see white arrow). Orient it as shown when placing the ring on the base.



9. Once the ring is against the base, rotate it clockwise until the tab is straight up. You may have to pull the spring-loaded tab forward before you can rotate the ring into position. When the tab is straight up, it will snap into position.



10. Plug the lock cable into the receptacle on the underside of the keypad. Note that the features of the plug and receptacle can only align when the plug is correctly oriented.



11. If the power leads (red and black wires and white connector) are not already connected to the keypad, plug the white connector into the white receptacle on the back of the keypad. Align the connector's single ridge with the slot in the receptacle.



12. The lock cable should be routed inside the keypad assembly as shown in the photo. Make sure the cable is not crimped or pinched.



13. The battery wires should be routed as shown here. Proper cable placement keeps wires from being crushed or pinched when the keypad is installed.



14. Install the keypad into the base. Seat the raised ridge at the top of the keypad into the matching recess in the top of the previously installed ring first, then secure the assembly by installing one of the provided 8-32 machine screws at the bottom, as shown. One screw is a standard Phillips style, to be used when keypad removal is anticipated at some time in the future. The other screw is a one-way style, to be used for more secure EN1300 compliant installations. When the screw is installed, cover it with the self-stick S&G logo to finish the installation.

Z⁰² 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).

Minimum Lock Cable (Spindle) Hole Diameter: 0.312 inch (7,9 mm).

Maximum Lock Cable (Spindle) Hole Diameter: 0.5 inch (12,7 mm).

Lock is Designed to Move: 0.0 lbs. (0 Newtons).

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.

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. 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: 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.

