

# S&G 2740

## OPERATING INSTRUCTIONS



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## OPERATION NOTES

- All setup, maintenance, and troubleshooting operations must be performed with the safe or container OPEN.
- NEVER close the container with either a change key or the setup module attached.
- The setup module must be disconnected to test the lock.
- Lock bodies and covers are matched components. Do not replace a lock cover with the cover from another lock. At best, this will produce erratic lock operation.
- The lock will emit a beep or beep pattern to communicate its state. See the table on page 3.
- If ten (10) incorrect combinations are entered in a row, the S&G Model 2740 Electromechanical Safe Lock will shut down for a period of ten (10) minutes.

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## DIALING NOTES

- Avoid “overshooting” the number and backing up to it.
- If you overshoot, continue rotating the dial in the same direction for an extra turn, then stop precisely on the desired number.
- The dial can be rotated more than the minimum number of rotations for entry of any combination number.
- The 2740 is locked by turning the dial left (counterclockwise) at least half a revolution (approximately 50 numbers).
- If you stop dialing for more than ten (10) seconds, the lock will reset, forcing you to begin the combination entry sequence over again.

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## BATTERY NOTES

- S&G Model 2740 Electromechanical Safe Lock is powered by a CR123A lithium-ion battery (main) and a CR2450 coin cell (long-life backup battery).
- To test battery strength, press and hold the Setup Module Button for one second. The greater number of lit LEDs at the top of the module equals greater battery strength (replace both lock batteries if four or less LEDs light).
- If a lock emits 10 beeps upon opening, both lock batteries must be changed.
- Both batteries must be changed at the same time by a technician who has successfully completed S&G factory approved training.
- Operation will switch to the backup battery and latch OPEN if the ten-beep low battery signal is repeatedly ignored.
- Opening with the backup battery may take as long as five (5) seconds after the combination is entered.
- If the lock does not lock, the batteries will have to be replaced and reset by an S&G 2740 Certified Technician.

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## BEEP PATTERNS

- Standard Beep: A short, distinct beep
- “Brap” Beep: A long beep that is ten times as long as the standard beep

Beep Pattern	Description
1 Beep	Change key has been inserted and recognized
1 Beep (In the Change Operating mode)	Single User Mode enabled
2 Beeps (In the Change Operating mode)	Dual User Mode enabled
3 Beeps	Sounded between each step of a programming sequence
4 Beeps	First combination is successfully entered in a dual-control mode
5 Beeps	Combination or operating mode change, or code recovery procedure is complete
6 Beeps	Lock has entered the change operating mode state
10 Beeps	Lock is opened and there is a low battery condition
3 Beeps - Pause - 3 Beeps - Pause - 3 Beeps	Lock has never been calibrated and needs calibration
1 Brap	An error occurred in the programming sequence
2 Braps	The dial is turned while the lock is in a ten minute penalty state

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## OPENING THE LOCK IN SINGLE-USER MODE

1. Turn dial left (counterclockwise) at least four complete revolutions, then stop precisely on the first number of the combination.
2. Turn the dial right (clockwise) three times, stopping when the second number of the combination comes into view during the third rotation.
3. Turn the dial left two times, stopping when the third combination number comes into view during the second rotation.
4. Turn the dial to the right approximately one and a half (1.5) times. If you have entered your combination correctly, the dial will come to a stop before you finish the 1.5 revolutions.

*Note: If you overshoot, continue rotating the dial in the same direction for an extra turn, then stop precisely on the desired number.*

## OPENING THE LOCK IN DUAL-USER MODE

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*Note: Two different combinations are needed to open the lock. It does not matter which combination you enter first.*

1. Turn the dial left (counterclockwise) at least four (4) complete revolutions.
2. Stop precisely on the first number of the 1<sup>st</sup> combination.
3. Turn the dial right (clockwise) three times, stopping on the second number of the first combination.
4. Turn the dial left two times, stopping on the third number of the first combination.
5. Turn the dial right about ten numbers. The lock will emit four quick beeps.

*Note: The first combination has been entered. The second (2<sup>nd</sup>) combination must be entered within two minutes of the first combination entry.*

6. Turn the dial left four times, stopping on the first number of the second combination.
7. Turn the dial right three times, stopping on the second number of the second combination.
8. Turn the dial left two times, stopping on the third number of the second combination.
9. Turn the dial right one and a half times. If the two combinations have been entered correctly, the dial will come to a positive stop before you finish the revolutions.

*Note: If either of the two combinations have not been dialed correctly, the lock will emit a brap. Go back to Step 1 and begin again.*

*If you overshoot, continue rotating the dial in the same direction for an extra turn, then stop precisely on the desired number.*

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## COMBINATION CHANGE NOTES

- All combinations must contain three (3) numbers, ranging from 0 to 99.
- Unlike mechanical locks, the 2740 has no forbidden zone, and it does not have a restriction on how close adjacent numbers of the combination may be to one another.
- At the conclusion of a combination change or service operation, the lock should be checked to make sure it operates at least three (3) times consecutively on the intended combination before closing the safe or container.
- The change key only plugs into the lock cover one way. The arrow in the connector will align with the arrow molded into the lock case when inserted correctly.
- In between programming steps, the lock will emit three quick beeps when the dial is turned clockwise. Immediately stop turning the dial when you hear these beeps. (If the dial is turned too far clockwise after the beeps are emitted, the lock will interpret it as the next combination begin entered incorrectly and emit a brap.)
- The lock provides two (2) minutes to change each combination. After two minutes, the lock will reset and you will need to revert to Step 1.
- If you stop dialing a combination for more than ten (10) seconds, the lock will reset and you will need to revert to Step 1.
- If you begin a combination change and decide not to proceed, or you make a mistake, simply stop and wait two minutes for the change function to time out. After two minutes, a long tone will sound.

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## CHANGING THE COMBINATION WITH THE CHANGE KEY

*Note: This procedure is used for locks in Single User Mode and Dual User Mode. For Dual User Mode, each user must change their code independently.*

*The lock's combination can be changed by use of the setup module or a separate change key. Only a safe technician who has successfully completed the factory approved 2740 training class should connect a setup module to lock.*

*The change key can be used by a safe custodian or security officer following the appropriate instructions included in this document.*

1. Open the lock using the existing combination(s).
2. With the safe or container open, extend the lock block to the locked position.
3. Insert the change key into the receptacle in the lock cover.

*Note: It is now time to enter your current combination again. The lock will emit one quick beep when you begin.*

4. Turn the dial left (counterclockwise) at least four times, then stop precisely on the first number of your current (old) combination.
5. Turn the dial right (clockwise) three times, stopping on the second number of your old combination.
6. Turn the dial left two times, stopping on the third number of your old combination.
7. Turn the dial right until you hear three quick beeps.
8. Turn the dial left four times, stopping on the first number of the NEW combination.
9. Turn the dial right three times, stopping on the second number.
10. Turn the dial left two times, stopping on the third number.
11. Turn the dial right until you hear three quick beeps.

*Note: The new combination has been entered. It needs to be entered again for verification.*

12. Turn the dial left (counterclockwise) four times, stopping on the first number of the new combination.
13. Turn the dial right (clockwise) three times, stopping on the second number of the new combination.

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## CHANGING THE COMBINATION WITH THE CHANGE KEY - CONTINUED

14. Turn the dial left two times, stopping on the third number of the new combination.
15. Turn the dial right, listening for five quick beeps to indicate a successful combination change.
16. Continue turning the dial right to retract the lock bolt.

*Note: Do not close the safe door or container drawer until you have checked the new combination for proper operation at least three (3) times with the door or drawer OPEN.*

*If you accidentally close the door with the change key in the lock, repeat the entire combination change procedure, beginning with step 4.*

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