Sargent & Greenleaf 6730-100

Sargent & Greenleaf Model 6730-100 Mechanical Safe Lock Kit

User Instruction Manual

1. Introduction

The Sargent & Greenleaf Model 6730-100 is a high-security mechanical combination lock designed for use on safes, vaults, and other secure containers. This Group 2 certified lock is renowned for its reliability, durability, and enhanced attack resistance, making it an industry standard for protecting valuables. This manual provides essential information for the proper installation, operation, and maintenance of your S&G Model 6730-100 lock.



Figure 1.1: Sargent & Greenleaf Model 6730-100 Dial Assembly

2. Safety Information

Please read and understand all instructions before attempting to install or operate this lock. Improper installation or use can compromise the security of your safe and may lead to injury or damage.

- **Professional Installation Recommended:** For optimal security and performance, it is highly recommended that this lock be installed by a qualified safe technician.
- **Handle with Care:** The internal components of the lock are precision-engineered. Avoid dropping or subjecting the lock to excessive force.
- **Secure the Safe Door:** Always ensure the safe door is open and secured before performing any installation or maintenance procedures to prevent accidental lockout.
- **Keep Combinations Confidential:** Never share your combination with unauthorized individuals. Change your combination regularly, especially after initial setup or if it has been compromised.

3. Package Contents

Verify that all components are present and undamaged before beginning installation:

- Sargent & Greenleaf Group 2 Combination Lock Body
- D300 Dial (Black finish)

- Dial Ring (Black finish)
- Mounting Hardware (Screws, etc.)



Figure 3.1: Sargent & Greenleaf Model 6730-100 Lock Body Internal Components

4. Setup and Installation

Installation of the Model 6730-100 lock requires precision and familiarity with safe mechanisms. If you are not experienced with safe lock installation, it is strongly advised to seek assistance from a certified safe technician.

4.1. Pre-Installation Checks

1. Ensure the safe door is open and secured to prevent accidental lockout during installation.
2. Confirm that the mounting holes on your safe door align with the lock body and dial ring. Refer to the technical drawing for precise dimensions.
3. Gather necessary tools, which typically include screwdrivers, wrenches, and potentially drilling equipment if modifications are required.

4.2. Mounting the Lock Body

1. Position the lock body on the inside of the safe door, ensuring the bolt extends and retracts freely.
2. Secure the lock body using the provided mounting screws. Do not overtighten.
3. Verify that the lock bolt engages and disengages smoothly with the safe's boltwork.

4.3. Installing the Dial and Dial Ring

1. Attach the dial ring to the exterior of the safe door, aligning it with the spindle hole.
2. Insert the dial spindle through the dial ring and the safe door, connecting it to the lock body.
3. Ensure the dial rotates smoothly and the numbers align correctly with the opening index mark.

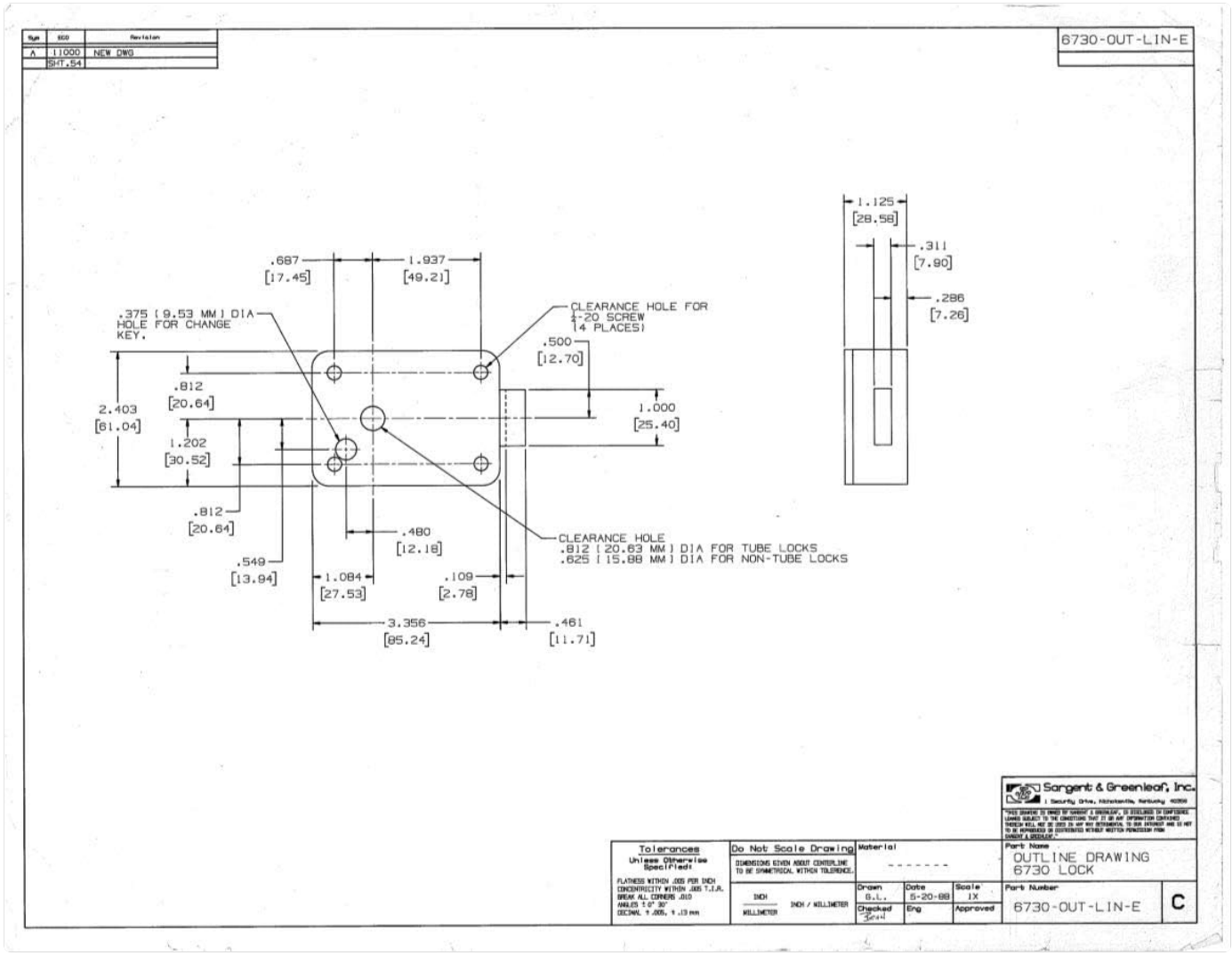


Figure 4.1: Model 6730-100 Outline Drawing with Dimensions

5. Operating Instructions

The Model 6730-100 is a three-wheel mechanical combination lock. It comes with a factory-set combination, which should be changed immediately after installation for security purposes.

5.1. Opening the Lock

To open the lock, use the following standard dialing procedure for a three-number combination (e.g., 10-20-30):

1. Turn the dial **right** (clockwise) at least four complete revolutions, stopping on the first number of your combination (e.g., 10) the fourth time the number aligns with the opening index mark.
2. Turn the dial **left** (counter-clockwise) three complete revolutions, stopping on the second number of your combination (e.g., 20) the third time the number aligns with the opening index mark.

3. Turn the dial **right** (clockwise) two complete revolutions, stopping on the third number of your combination (e.g., 30) the second time the number aligns with the opening index mark.
4. Turn the dial **left** (counter-clockwise) slowly until the dial stops or the bolt retracts. This typically occurs around the 90-0 mark.
5. The lock is now open. Turn the safe handle to open the door.

Note: *Always ensure the dial is turned firmly and precisely to each number. If you pass a number, you must restart the entire dialing sequence from the beginning.*

5.2. Changing the Combination

The Model 6730-100 features key-changeable wheels, allowing for simple combination changes at the lock. This procedure requires a change key (not included in all kits, may need to be purchased separately).

1. Open the safe door and retract the lock bolt. Keep the door open during the entire combination change process.
2. Dial the **current** combination to the changing index mark (usually located at the 12 o'clock position, different from the opening index). Refer to the specific instructions provided with your change key or by a qualified technician for precise dialing to the change index.
3. Insert the change key into the keyhole on the back of the lock body. Turn the key 90 degrees (usually clockwise) until it stops.
4. Dial the **new** combination to the changing index mark. For example, if your new combination is 40-50-60:
    - Turn right 4 times to 40.
    - Turn left 3 times to 50.
    - Turn right 2 times to 60.
5. Turn the change key back 90 degrees (usually counter-clockwise) to its original position and remove it.
6. **Test the new combination multiple times with the safe door open**before closing it. If the new combination does not work, repeat the process from step 2, ensuring accuracy.

6. Maintenance

The Sargent & Greenleaf Model 6730-100 mechanical lock is designed for long-term, reliable operation with minimal maintenance. It is a precision instrument and should not be tampered with.

- **No Lubrication Required:** Do not apply any lubricants (oils, greases, graphite, etc.) to the lock mechanism or dial. These can attract dust and debris, leading to malfunction.
- **Keep Clean:** Keep the dial and dial ring clean and free of dust and grime. Use a soft, dry cloth for cleaning.
- **Avoid Force:** Never force the dial or safe handle. If you encounter resistance, re-dial the combination carefully.
- **Periodic Inspection:** Periodically check the mounting screws for tightness. If the lock feels loose, gently tighten the screws.

7. Troubleshooting

If you experience issues with your Model 6730-100 lock, consider the following common problems and solutions:

- **Lock Will Not Open:**
    - Ensure you are dialing the correct combination.
    - Verify you are dialing to the correct index mark (opening index).
    - Confirm the correct number of turns for each digit (4 right, 3 left, 2 right).

- Ensure you are not overshooting or undershooting numbers. If you pass a number, restart the entire sequence.
- Check for any obstructions around the dial or safe handle.

- **Dial Feels Stiff or Gritty:**
  - Do not apply lubricant.
  - Ensure the dial is clean.
  - If the issue persists, contact a qualified safe technician.

- **Combination Change Failed:**
  - Ensure the safe door was open and the bolt retracted during the change process.
  - Verify the change key was fully inserted and turned correctly.
  - Confirm the old combination was dialed precisely to the changing index before inserting the key.
  - Ensure the new combination was dialed precisely to the changing index before removing the key.
  - Repeat the combination change process carefully, paying close attention to each step.

For persistent issues or complex problems, it is always best to consult a professional safe technician.

8. Specifications

Feature	Detail
Model Name	6730-100
Brand	Sargent & Greenleaf
Lock Type	Mechanical Combination Lock (Square Bolt)
Certifications	UL Group 2, Vds1, A2P A/E, EN1300 Class A
Material	Brass, Metal
Dimensions (L x W x H)	7.75 x 4.25 x 4.63 inches
Item Weight	2.25 pounds
Color	Black
Power Source	None (Fully Mechanical)
Combination Capacity	Up to 1,000,000 theoretical combinations
Special Features	Keyless, Lockable, Enhanced Attack Resistance, Combination Changeable

9. Warranty and Support

9.1. Warranty Information

The Sargent & Greenleaf Model 6730-100 Mechanical Safe Lock Kit comes with a**Two Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
The warranty does not cover damage resulting from improper installation, misuse, unauthorized modification, or natural disasters. For full warranty terms and conditions, please refer to the documentation provided with your product or contact Sargent & Greenleaf directly.

9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Sargent & Greenleaf customer support. Contact information can typically be found on the manufacturer's official website or product packaging. When contacting support, please have your product model number (6730-100) and date of purchase readily available.

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