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Sargent & Greenleaf 6730-100

Sargent & Greenleaf Model 6730-100 Safe Lock Kit Instruction Manual

Model: 6730-100

Brand: Sargent & Greenleaf

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Sargent & Greenleaf Model 6730-100 Safe Lock Kit. Please read this manual thoroughly before attempting any installation or operation to ensure proper function and security.

Product Overview

The Sargent & Greenleaf Model 6730-100 is a high-quality mechanical safe lock designed for robust security applications. It features a 3-wheel combination mechanism with a standard bolt, accompanied by a D300/R211 front reading black and white dial and ring for user-friendly operation.

Key Features

- **Complete Kit:** Contains all necessary components for installing a combination lock on a safe.
- **Mechanical Reliability:** A time-tested, durable mechanical locking system.
- **Keyless Operation:** Access is granted via a combination code, eliminating the need for physical keys.
- **Durable Construction:** Manufactured from sturdy alloy steel and aluminum for long-lasting performance.
- **Standard Bolt:** Designed for compatibility with a wide range of safe doors.



Image showing the complete Sargent & Greenleaf 6730-100 Safe Lock Kit, including the lock mechanism, dial, ring, and various installation hardware, all packaged within its retail box.

Kit Components

Your Sargent & Greenleaf 6730-100 Safe Lock Kit includes the following main components:

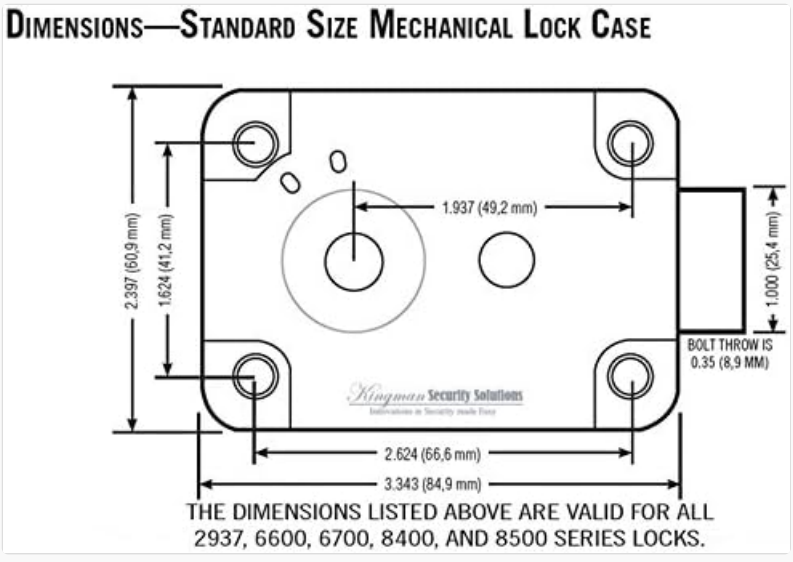
- Mechanical Lock Body (3-wheel mechanism)
- Combination Dial (D300/R211 Front Reading Black and White)
- Dial Ring
- Mounting Screws and Hardware
- Spindle (if applicable, for certain installations)
- Instruction Manual



Close-up view of the Sargent & Greenleaf 6730-100 mechanical safe lock body and the black and white combination dial, showcasing their robust construction.

Technical Specifications

Feature	Detail
Model Number	6730-100
Lock Type	Mechanical Combination Lock (3-Wheel)
Bolt Type	Standard Bolt
Dial Type	D300/R211 Front Reading Black and White Dial
Material	Alloy Steel, Aluminum
Color	Black and White
Dimensions (L x W x H)	Approximately 1 x 1 x 1 inches (lock body)
Item Weight	Approximately 2.27 pounds
Special Feature	Keyless Operation



Technical diagram illustrating the precise dimensions of the standard size mechanical lock case, crucial for proper installation and fitment.

Installation and Mounting

Proper installation is critical for the security and functionality of your S&G 6730-100 safe lock. It is highly recommended that installation be performed by a qualified safe technician. The following steps provide a general overview of the mounting process.

General Mounting Steps (Refer to detailed diagram for specifics):

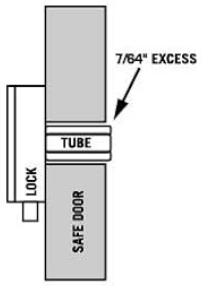
1. **Prepare the Safe Door:** Ensure the safe door is clean and the mounting area is clear.
2. **Spindle Installation:** Insert the spindle through the safe door and into the lock body. Ensure it is properly aligned and secured.
3. **Mount Lock Body:** Position the lock body on the inside of the safe door, aligning it with the spindle and mounting holes. Secure the lock body using the provided screws.
4. **Install Dial Ring:** Place the dial ring on the outside of the safe door, ensuring it is centered and securely fastened.
5. **Attach Dial:** Secure the combination dial to the spindle, ensuring it rotates smoothly and is properly engaged with the lock mechanism.
6. **Test Operation:** Before closing the safe door, perform several tests to ensure the lock operates correctly with the factory or newly set combination.

Mounting Instructions

SARGENT AND GREENLEAF

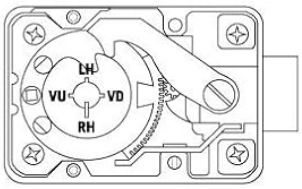
Standard 3-Wheel and 4-Wheel Group 2 and 2M Combination Locks

THIS STEP APPLIES ONLY TO THE 6735, WHICH IS EQUIPPED WITH AN ALUMINUM SPINDLE TUBE:

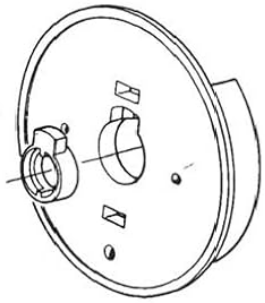


Insert the aluminum tube through the spindle hole in the safe door, and hold the lock against the safe door's mounting plate. Mark the tube 7/64" out from the front surface of the safe door. Remove the lock and cut the tube at your mark. Make sure the cut is straight and smooth, and remove any sharp edges, burrs and cutting debris.

1. Using your fingers, pull the lock bolt to the fully extended position. It should project approximately 1/2" from the lock case when fully extended.
2. Remove the two Phillips head cover screws.
3. Remove the lock cover and set it aside.
4. Remove the drive cam and set it aside.
5. Align the spindle hole of the lock case with the spindle hole of th safe door and securel fasten the lock to the safe's mounting plate by installing a 1/4 x 2(machine screw at each corner of the lock case.

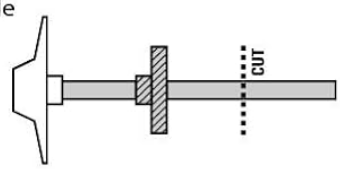


6. Seat the Delrin bushing into the back of the dial ring, and, using two 8-32 machine screws, install the dial ring to the front of the safe door. Align the hole in the center of the ring as closely as possible with the spindle hole in the door.

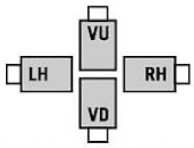


NOTE: If the lock is equipped with a tube, the dial ring bushing will seat over the end of the tube.

7. Insert the dial's spindle through the safe door and lock. Thread the spindle into the drive cam until the lock dial is snug in its ring and the drive cam is snug against the wheel post of the lock. Mark the spot where the spindle first projects through the drive cam.
8. Remove the spindle from the lock, thread the drive cam onto the spindle until it is between the dial and your mark. Cut the spindle at your mark, then file the new spindle end until it is smooth and flat. Remove the drive cam from the spindle to re-form any threads, which may have been damaged in the cutting process.

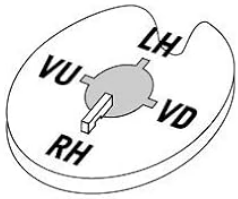


9. Insert the dial's spindle through the safe door and thread it into the drive cam until snug. The end of the spindle should now be nearly flush with the surface of the drive cam.
10. Back the cam off the spindl enough to align the slot (spline keyway) in the spin with the slot in the drive ca which corresponds to the mounting position of the lc (RH, LH, VU, VD). If less than 1/2 turn is required to align the spline keyways, back the cam off one extra revolution.



VIEWED FROM BACK OF LOCK

11. Insert a new, unused spline key into the align spindle and drive cam slots. The flag of the spline key should extenc over the body of the driv cam and NOT cross the end of the spindle. Using a small, light hammer, tap the spline key until the flag just touches the surface of the drive cam. Make certain the spline key is a tight friction fit, or the lock will not function properly.



12. Replace the lock's cover and fasten it securely with the cover screws.
13. Refer to operating and changing instructions for the model of lock you have installed.

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Innovations in Security made Easy

Dokument: 630-738
Revised 3/9/2006

Detailed mounting instructions for the S&G 6730-100 lock, including diagrams and step-by-step guidance for standard 3-wheel and 4-wheel group 2 and 2M combination locks. This image provides critical visual and textual information for professional installation.

Operating Instructions

The Sargent & Greenleaf 6730-100 is a 3-wheel mechanical combination lock. Understanding the correct dialing sequence is essential for proper operation.

Opening the Lock (Standard 3-Number Combination):

1. **Clear the Lock:** Turn the dial to the right (clockwise) at least four complete revolutions, stopping on the first number of your combination the fourth time it comes to the index mark.
2. **Dial Second Number:** Turn the dial to the left (counter-clockwise) passing the second number two times, stopping on the second number the third time it comes to the index mark.
3. **Dial Third Number:** Turn the dial to the right (clockwise) passing the third number one time, stopping on the third number the second time it comes to the index mark.
4. **Open the Lock:** Turn the dial slowly to the left (counter-clockwise) until the bolt retracts and the safe door can be opened.

Changing the Combination:

Changing the combination requires specific tools and knowledge. It is highly recommended that combination changes be performed by a certified safe technician to prevent lockouts or damage. Refer to the detailed instructions provided with your lock or consult a professional.

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FIG. A
ABB.A

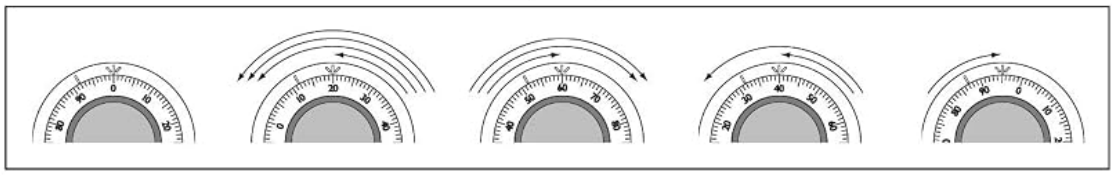


FIG. B
ABB.B

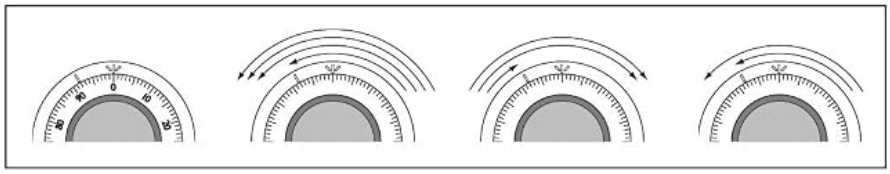
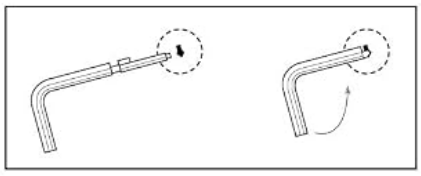


FIG. C
ABB.C



ENGLISH

Operating Instructions for 6600/6700 series three number combination lock

Important: Turn dial slowly and evenly. Do not turn back to regain alignment if you rotate past number. If an error is made, re-dial entire combination. Do not count turns. Count how many times each number is aligned with the opening index (at the 12 o'clock position). Always view the dial and ring straight on, not at an angle.

To Open: (Refer to Figure A)

Step 1: Turn dial left, aligning first number with the opening index the fourth time it comes to the index.

Step 2: Turn dial right, aligning second number with the opening index the third time it comes to the index.

Step 3: Turn dial left, aligning third number with the opening index the second time it comes to the index.

Step 4: Turn dial right until dial comes to a complete stop.

Step 5: To relock and secure the combination lock, turn the dial to the left at least four revolutions.

Changing Instructions for 6600/6700 series three number combination lock

Important: You must have the correct change key. Do not set the third number of the combination between 5 and 11 on a lock with a dial splined at 50. The "forbidden zone" can shift slightly due to installation and tolerances, but will always be between 4 and 12. Do not set adjacent numbers of the combination within five numbers of each other. Do not remove lock cover. If an error is made, re-dial the entire combination.

To Change: (Refer to Figure B)

Step 1: Using the existing combination on the opening index, unlock combination lock, and open safe door. Relock lock with safe door open.

Step 2: Dial the existing combination again, using the changing index (at the 11 o'clock position). Keep the third number aligned on the changing index.

Step 3: (Refer to Figure C) Insert change key into key hole on the lock's cover. Change key must be completely inserted.

Step 4: Rotate key left 90 degrees.

Step 5: Enter a new three number combination using the changing index, dialing as follows:

- Turn dial left until the first new number aligns with the changing index the fourth time.
- Turn dial right until the second new number aligns with the changing index the third time.
- Turn dial left until the third new number aligns with the changing index the second time.
- Turn the dial right ten numbers.

Step 6: Rotate change key right 90 degrees until it stops. Remove change key.

Step 7: Using the opening index, check new combination at least three times.

After changing the opening code, the lock should be opened and locked several times with the safe door open.

Important: Do not select codes such as birthdays or other predictable data which could give a correlation between the user and the opening code.

ESPAÑOL

Instrucciones de operación para la cerradura de combinación de tres números de la serie 6600/6700

Importante: Montar el dial lenta y uniformemente. No gire hacia atrás para realinear si gira más allá del número. Si comete un error, vuelva a girar la combinación completa desde el principio. No cuente el número de giros del dial sino las veces que el número de su combinación pasa por el índice de apertura (a las 12 en punto). Observe siempre el dial y el anillo desde adelante, nunca en ángulo.

Para abrir: (Vea la figura A)

Paso 1: Gire el dial hacia la izquierda, alineando el primer número de su combinación con el índice de apertura en el cuarto giro.

Paso 2: Gire el dial hacia la derecha, alineando el segundo número de su combinación con el índice de apertura en el tercer giro.

Paso 3: Gire el dial hacia la izquierda, alineando el tercer número de su combinación con el índice de apertura en el segundo giro.

Paso 4: Gire el dial hacia la derecha hasta que se detenga totalmente.

Paso 5: Para cerrar nuevamente la cerradura de combinación, gire el dial hacia la izquierda por lo menos cuatro revoluciones.

Instrucciones para cambiar la combinación de tres números de la cerradura de la serie 6600/6700

Importante: Es necesario tener la llave de cambio correcta. En el proceso de elegir la combinación nueva, como tercer número de la combinación no elija un número entre 5 y 11 si el dial de la caja está ranurado en el número 50. La "zona prohibida" puede variar ligeramente debido a la instalación y tolerancias, pero estará siempre entre los números 4 y 12. No programe números contiguos a una separación de cinco cifras o menos entre sí. No retire la tapa de la cerradura. Si comete un error, monte la combinación completa nuevamente desde el principio.

Para hacer el cambio: (Vea la figura B)

Paso 1: Use la combinación existente en el índice de apertura para abrir la cerradura de combinación y la puerta de la caja. Mantenga la puerta abierta y cierre la cerradura.

Paso 2: Una vez más monte la combinación, utilizando el índice de cambio (a las 11 en punto). Mantenga el último número alineado al índice de cambio.

Paso 3 (Vea la figura C) Inserte la llave de cambio a través del agujero en la tapa de la cerradura, asegurándose de que la llave esté insertada completamente.

Paso 4: Gire la llave de cambio 90º hacia la izquierda.

Paso 5: Utilizando el índice de cambio, monte la combinación nueva de tres números, siguiendo los siguientes pasos:

- Gire el dial hacia la izquierda, alineando el primer número nuevo de la combinación con el índice de cambio en el cuarto giro.
- Gire el dial hacia la derecha, alineando el segundo número nuevo de la combinación con el índice de cambio en el tercer giro.
- Gire el dial hacia la izquierda, alineando el tercer número nuevo de la combinación con el índice de cambio en el segundo giro.
- Gire el dial diez números hacia la derecha.

Paso 6: Gire la llave de cambio 90º hacia la derecha, hasta que se detenga. Retire la llave de cambio.

Paso 7: Utilizando el índice de apertura, verifique la nueva combinación un mínimo de tres veces.

Después de cambiar el código de apertura, la cerradura se debe abrir y cerrar varias veces con la puerta de la caja abierta.

Importante: No elija códigos como fechas de cumpleaños u otros datos que sean fáciles de predecir y puedan relacionar al usuario con el código para abrir la caja.

FRANÇAIS

Instructions d'utilisation des serrures à combinaison à trois numéros de la série 6600/6700

Important — Tourner le cadran lentement et sans a-coups. Ne pas revenir en arrière si le numéro désiré a été dépassé. En cas d'erreur composer de nouveau la combinaison tout entière. Ne pas compter les tours. Compter combien de fois chaque numéro est aligné avec le repère d'ouverture (à la position de midi). Il faut toujours observer le cadran et la bague à la perpendiculaire, pas de travers.

Ouverture (consulter la figure A)

Etape 1 — Tourner le cadran vers la gauche et aligner le premier numéro sur le repère d'ouverture, la quatrième fois qu'il arrive au repère.

Etape 2 — Tourner le cadran vers la droite et aligner le second numéro sur le repère d'ouverture, la troisième fois qu'il arrive au repère.

Etape 3 — Tourner le cadran vers la gauche et aligner le troisième numéro sur le repère d'ouverture, la deuxième fois qu'il arrive au repère.

Etape 4 — Tourner le cadran vers la droite jusqu'à ce qu'il arrive en butée.

Etape 5 — Pour verrouiller et bloquer la serrure à combinaison, tourner le cadran d'au moins quatre tours vers la gauche.

Instructions de changement de la combinaison de la serrure à trois numéros de la série 6600/6700

Important — Il faut avoir la clé de changement appropriée. Il ne faut pas choisir le troisième numéro entre 5 et 11 sur une serrure avec un cadran claveté à 50. La « zone défendue » peut être légèrement décalée à cause de l'installation et des tolérances, mais elle est toujours entre 4 et 12. Il ne faut pas choisir des numéros adjacents à moins de cinq unités l'un de l'autre. Il ne faut pas enlever le couvercle de la serrure. En cas d'erreur, composer de nouveau la combinaison tout entière.

Changement (consulter la figure B)

Etape 1 — Utiliser la combinaison existante pour déverrouiller la serrure et ouvrir la porte du coffre-fort. Verrouiller de nouveau la serrure avec la porte du coffre-fort ouverte.

Etape 2 — Composer de nouveau la combinaison existante en utilisant le repère de changement (à la position de 11 heures). Maintenir le troisième numéro aligné sur le repère de changement.

Etape 3 — (consulter la figure C). Insérer la clé de changement dans le trou du couvercle de la serrure. Il faut enfoncer complètement la clé de changement.

Etape 4 — Tourner la clé de 90º vers la gauche.

Etape 5 — Entrer une nouvelle combinaison à trois numéros en utilisant le repère de changement. Composer comme suit :

- Tourner le cadran vers la gauche et aligner le nouveau premier numéro sur le repère de changement, la quatrième fois qu'il arrive au repère de changement ;
- Tourner le cadran vers la droite et aligner le nouveau deuxième numéro sur le repère de changement, la troisième fois qu'il arrive au repère de changement ;
- Tourner le cadran vers la gauche et aligner le nouveau troisième numéro sur le repère de changement, la deuxième fois qu'il arrive au repère de changement.
- Tourner le cadran dix numéros vers la droite.

Etape 6 — Tourner la clé de changement de 90º vers la droite, jusqu'à la butée. Enlever la clé de changement.

Etape 7 — En utilisant le repère d'ouverture, vérifier au moins trois fois la nouvelle combinaison.

Après avoir essayé la combinaison, verrouiller et déverrouiller la serrure plusieurs fois, avec la porte du coffre-fort ouverte.

Important — Il ne faut pas sélectionner des codes tels que date de naissance ou autres dates prévisibles qui peuvent donner une corrélation entre l'utilisateur et la combinaison.

Multi-language page detailing the operating instructions for Sargent & Greenleaf 6600/6700 series combination locks, including dialing sequences for opening and changing combinations. This is a vital reference for users.

Maintenance

The Sargent & Greenleaf 6730-100 mechanical safe lock is designed for long-term reliability with minimal maintenance. However, proper care can extend its lifespan and ensure consistent performance.

- **Keep Clean:** Periodically wipe the exterior of the dial and ring with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the finish.
- **Avoid Lubrication:** Do not attempt to lubricate the internal mechanism of the lock. These locks are designed to operate dry, and adding lubricants can attract dust and debris, leading to malfunction.
- **Professional Service:** If the lock feels stiff, difficult to dial, or exhibits any unusual behavior, contact a qualified safe technician for inspection and service. Do not attempt to repair the lock yourself.
- **Combination Security:** Keep your combination confidential and stored in a secure location separate from the safe. Change the combination periodically, especially if there's a change in personnel or security concerns.

Troubleshooting

Most issues with mechanical safe locks are related to incorrect dialing or minor obstructions. Here are some common troubleshooting tips:

- **Lock Not Opening:**
  - *Incorrect Dialing:* Ensure you are following the exact dialing sequence (e.g., 4 times right to first number, 3 times left to second, 2 times right to third, then left to open). Precision is key.
  - *Slight Over/Under Dialing:* Even a small deviation from the correct number can prevent the lock from opening. Try redialing carefully.
  - *Combination Change Error:* If the combination was recently changed, verify that the new combination was set correctly and is being dialed accurately.
- **Dial Feels Stiff or Gritty:** This could indicate internal wear or debris. Do not force the dial. Contact a professional safe technician for inspection.
- **Bolt Not Retracting Fully:** Check for any obstructions around the safe door or bolt work. If clear, the lock mechanism may require professional service.

For persistent issues or complex problems, always consult a certified safe technician. Attempting to force or tamper with the lock can cause damage and compromise the safe's security.

Warranty Information

Sargent & Greenleaf products are manufactured to high standards of quality and reliability. Specific warranty terms and conditions for the Model 6730-100 Safe Lock Kit are typically provided with the product packaging or can be obtained directly from Sargent & Greenleaf or your authorized dealer.

Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, replacement parts, or professional installation and service, please contact Sargent & Greenleaf

or an authorized S&G dealer.

You can find more information and contact details on the official Sargent & Greenleaf website or through their Amazon Brand Store:

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