Keypad

Installation Guide

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Introduction

The La Gard 700 series Keypads are available in the following variations:

- Standard Profile (Tamper Evident)
- Low Profile (Tamper Evident)
- Standard Profile (Serviceable)
- Low Profile (Serviceable).

Mount the Keypad and connect to a compatible 700 series lock before installing battery or AC power.

- Tamper Evident Standard Profile Keypads are powered by 2 9-volt batteries which are accessible via the removeable battery tray.
- Serviceable Standard Profile Keypads are powered by 2 9-volt batteries which are accessible by removing the front of the keypad itself.
- Low Profile Keypads must be installed with a secondary battery box or AC Power Adapter.

Mount a Tamper Evident Keypad (Standard & Low Profile)

Prior to connecting a safe lock to a Keypad, the Keypad must first be mounted to the exterior of the safe door. Follow these steps to properly mount a Keypad to the safe door:

1. Drill and tap the holes into the outside of the safe wall using the provided drill and tap template. Deburr the middle hole with a file or rotary tool.
   **Note:** Some safe manufacturers might include these holes at the OEM level.
2. Attach the Keypad baseplate onto the safe door using the provided Phillips head screws. The screws provided come in two variants: Metric M4-07 or US Customary Unit #8-32.
3. If mounting a deadbolt or springbolt, do the following:

   ⚠️ Do not use the anti-rotate device during this process, as it will render the safe permanently locked.

   a. Run the safe lock cable through the cable holder and place the cable holder over the corresponding posts of the Keypad body
   b. Press the spindle all the way through the bottom of the plastic housing
   c. Place the Keypad on the door. Rotate the Keypad 25 degrees clockwise so that it is vertically aligned. Measure 0.354 inches (9.0 mm) past the edge of the safe door and mark the spindle with a pen or marker.
   d. Remove the Keypad from the safe door and remove the spindle from the Keypad
   e. Cut the spindle to the appropriate length as determined from Step c
   f. Place the newly cut spindle into the Keypad, once again feeding it through the cable and spindle holder
   g. Run the safe lock cable through the opening in the safe door
   h. Place the Keypad over the opening in the grooves of the baseplate and rotate it 25 degrees to the vertical position
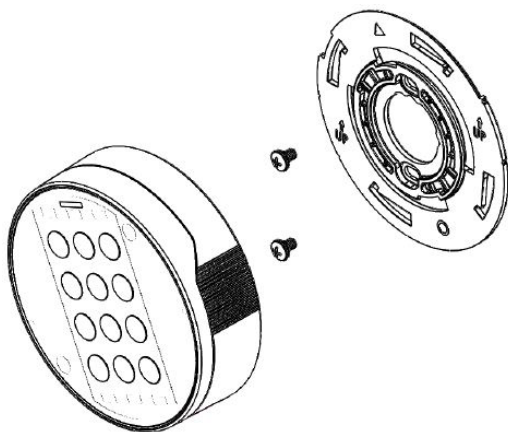
4. If mounting a swingbolt, do the following:
   a. Place the anti-rotate device inside the four-hole locations in the housing. Press down lightly so the anti-rotate device sinks into the channel in the housing
   Note: Ensure that the anti-rotate device is oriented properly, otherwise it will not engage properly with the baseplate when installed.

b.   Run the cable through the opening in the cable holder and place the cable holder over the corresponding posts in the Keypad body
c.   Run the safe lock cable through the opening in the safe door
d.   Place the Keypad over the opening in the channel of the baseplate and rotate 25 degrees to the vertical position. Some resistance occurs when winding up the anti-rotate device
e.   The anti-rotate device will click into place, permanently locking the Keypad into a vertical position; the Keypad cannot be removed from the safe door without damaging the Keypad
f.   Install the swingbolt
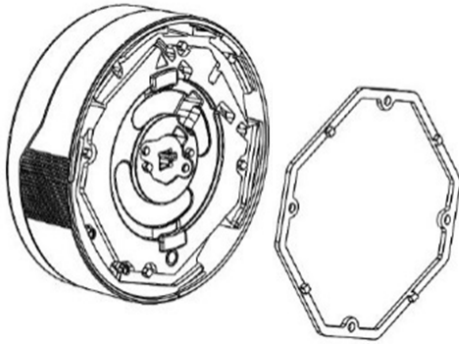

Mount a Standard Profile Serviceable Keypad

Follow these steps to properly mount a Standard Profile Serviceable Keypad to the safe door:

1. Drill and tap the holes into the outside of the safe wall using the provided drill and tap template. Deburr the middle hole with a file or rotary tool.
   **Note:** Some safe manufacturers might include these holes at the OEM level.
2. Mount the baseplate using the proper retainers for the desired lock type. Prior to mounting, align the baseplate in the correct position using the reference arrow pointing to the top.
   Note: If you are using horizontal holes, then the reference arrow should be pointing to the left.
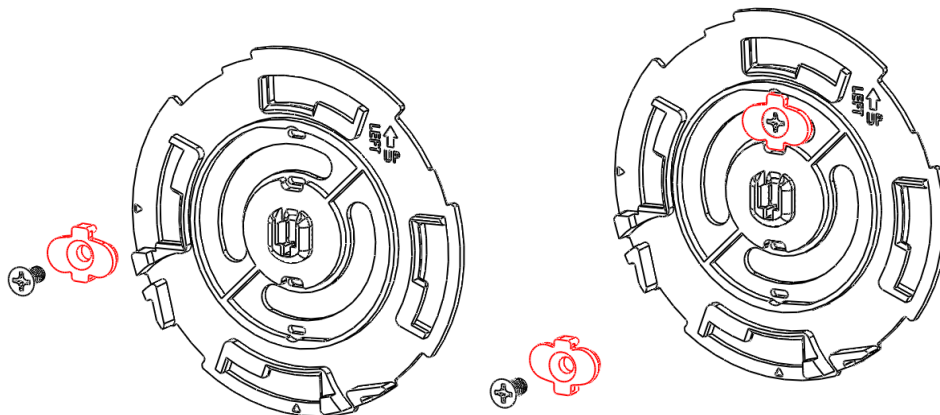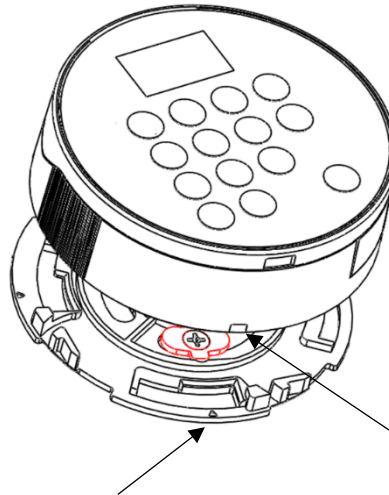

a.   For the Swingbolt application, use the retainer type shown above in Red.
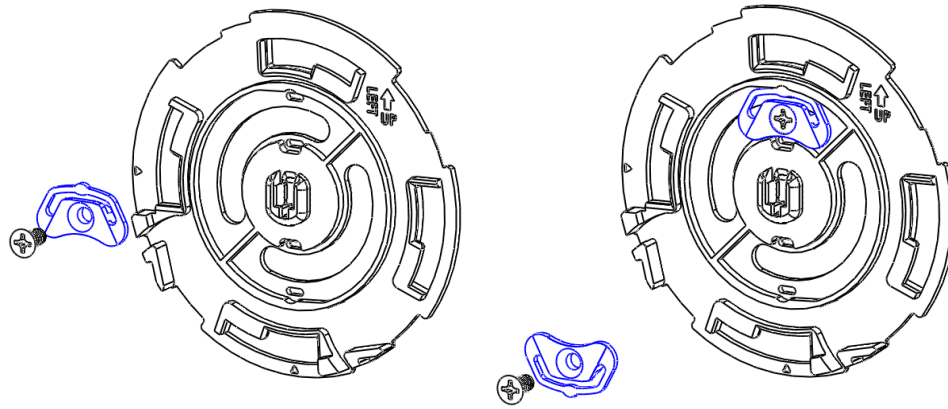
    b. For the Deadbolt and Springbolt application, use the retainer type shown above in Blue.

3. Feed the lock cable through the hole in the baseplate so that it emerges from the other side of the safe door.
4. Line up divot on bottom of keypad body with triangular mark on baseplate (see arrows on diagram below). Once aligned, install by pressing the keypad up against the baseplate, then rotating clockwise until the keypad latches in place.

5. If installing a deadbolt or springbolt, do the following:
    a. Make sure that the keypad is in its vertical orientation (not rotated to the side).
    b. From the inside of the safe door, insert the spindle through the central hole into the square opening in the baseplate. Orient the spindle so that the groove in the spindle faces upward if you used the vertical screw holes or faces to the right if you used the horizontal screw hole pattern. Place the spindle such that the lock cable runs inside of or alongside the groove.
    c. Measure .354 inches (9.0mm) past the edge of the safe door and mark the spindle with a pen or marker.
    d. Remove the spindle from the safe door, then cut the spindle to the appropriate length as determined in step c.
    e. Place the newly cut spindle into the keypad, then route the cable the same way as described in step b.

Mount a Low Profile Serviceable Keypad

Follow these steps to properly mount a Low Profile Keypad to the safe door:

1. Drill and tap the holes into the outside of the safe wall using the provided drill and tap template. Deburr the middle hole with a file or rotary tool.
   **Note:** Some safe manufacturers might include these holes at the OEM level.
2. Mount the baseplate using the proper retainers for the desired lock type. Prior to mounting, align the baseplate in the correct position using the reference arrow pointing to the top.
    Note: If you are using horizontal holes, then the reference arrow should be pointing to the left.
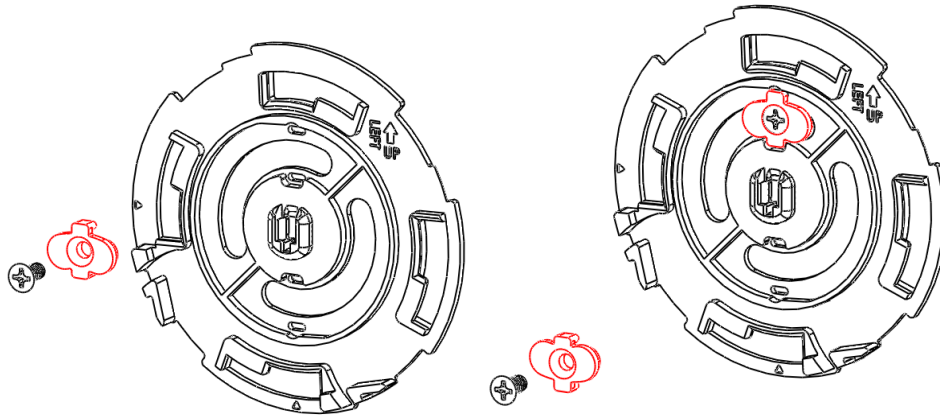
   c. For the Swingbolt application, use the retainer type shown above in Red.
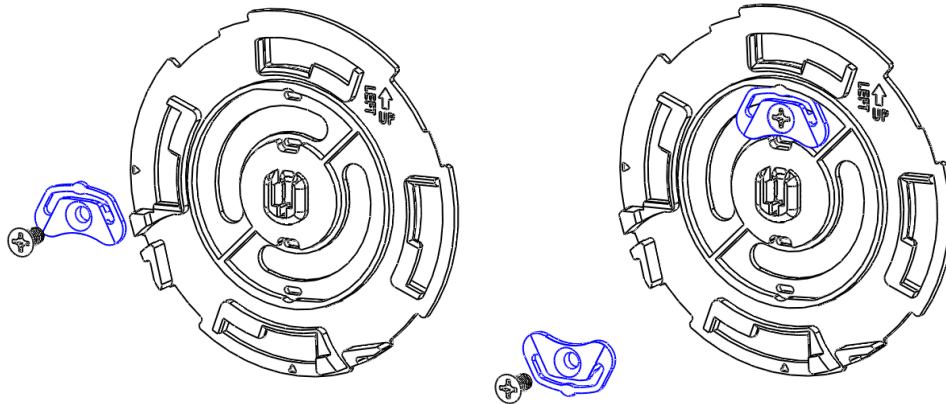
    d. For the Deadbolt and Springbolt application, use the retainer type shown above in Blue.

3. Mount the baseplate using the proper retainers for the desired lock type.
    Note: This process is very similar to the method described for the Standard Profile Serviceable Keypad, however the baseplates are different.
4. Release retaining latch with a small flat blade screwdriver or plastic shim and pull partially out.
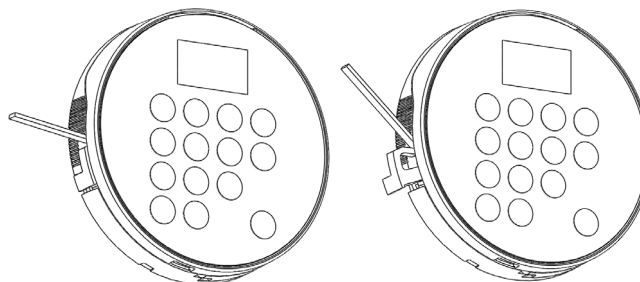
5. Feed the keypad cable through the hole in the baseplate so that it emerges from the other side of the safe door.
6. Line up divot on bottom of keypad body with triangular mark on baseplate.
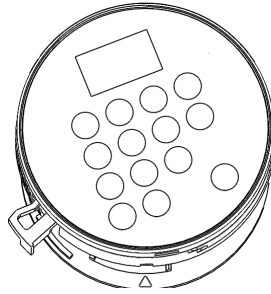
7. Once aligned, install by pressing the keypad up against the baseplate, then rotating clockwise until the keypad latches in place. At this point, it should be vertically aligned.
8. Push retaining latch back into the housing port to hold the keypad in place and prevent it from rotating and falling off the safe door.
9. If installing a deadbolt or springbolt, do the following:
    a. Make sure that the keypad is in its vertical orientation (not rotated to the side).
    b. From the inside of the safe door, insert the spindle through the central hole into the square opening in the baseplate. Orient the spindle so that the groove in the spindle faces upward if you used the vertical screw holes or faces to the right if you used the horizontal screw hole pattern. Place the spindle such that the lock cable runs inside of or alongside the groove.
    c. Measure .354 inches (9.0mm) past the edge of the safe door and mark the spindle with a pen or marker.
    d. Remove the spindle from the safe door, then cut the spindle to the appropriate length as determined in step c.
    e. Place the newly cut spindle into the keypad, then route the cable the same way as described in step b.

Connect a Safe Lock to a Keypad

Once the Keypad and safe lock(s) are physically installed onto the safe, they can be connected to form a System. Follow these steps to connect a safe lock to a Keypad:

1. For single lock Systems, do the following:
    a. Connect the cable from the Keypad into the ENT port. With the lock connected, apply power to the system. If a Battery Box, Alarm Box or AC power adapter is used, plug the cable from any of those accessories into the safe lock BAT port (as shown in the diagram below)
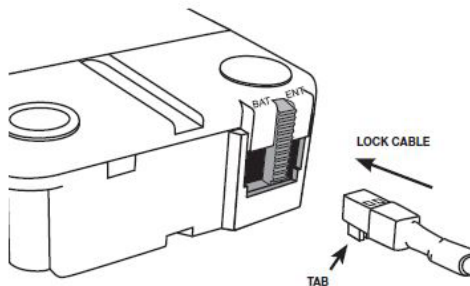
    b. Follow the on-screen prompts for Display Keypads or consult the System User Guide (Document #7040.1121) for non-Display Keypads to enter the lock settings and initialization
2. For multi-lock Systems, do the following:

a. Connect the Keypad cable to the port on the side of the Multiplexer
b. Connect the first safe lock (known as Lock #1 to the System) from the ENT port to the #1 input on the Multiplexer
c. From Lock #1, connect from the BAT port to a power supply (either the AC Adapter into a wall receptacle or to the BAT port of a Battery Box)
d. Repeat Step b for each safe lock
e. Display Keypads will show prompts on screen to continue, while non-Display Keypads require pound (#) commands. Consult the System User Guide (Document #7041.0320) for more information

Battery Access & Installation

The System can be powered multiple ways: AC adapter (see Document #7037.0320), Battery Box (see Document #7035.0320), and/or battery power from the Keypad.

Only the standard profile Keypad possesses a battery pack for primary power, while a low-profile version uses a battery backup in case of emergencies.

Standard Profile (Tamper Evident) Keypad

For Standard Profile (Tamper Evident) Keypads, do the following to access and install the batteries:

1. Press downward on the spring-loaded button located at the bottom of the keypad's battery pack. The spring mechanism will partially eject the battery pack out of the housing.
2. With the battery pack partially removed, grab the tip of the battery pack and remove it from the Keypad.
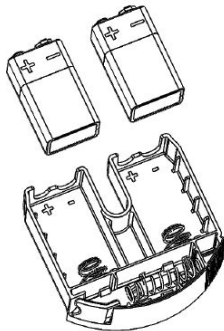

3. At this point the batteries are free to be added/removed/replaced. When installing the 9V batteries, use the markers in the battery tray to ensure the proper +/- orientation for each battery.
4. When finished installing the batteries into the battery tray, slide the tray back into the housing unit. When this is done properly, you should hear a small "click" sound ensuring the tray is secured properly.

Standard Profile Serviceable Keypad

For standard profile Keypads, do the following to access and install the batteries:

1. First, press the button on the underside of the keypad body. While holding this button, rotate the keypad counterclockwise until it becomes free from the baseplate. Flip over the keypad so that the reverse side of the keypad body is visible.
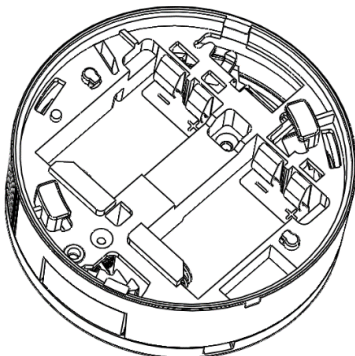
The reverse side of the keypad, with the battery cover in place, appears as follows:
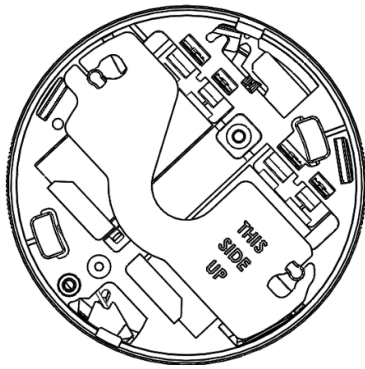
2. Twist the battery cover counterclockwise to detach it from the housing, as shown below:
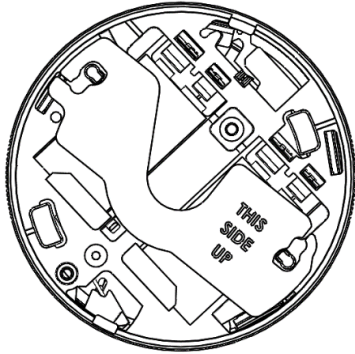
3. Remove the battery cover and install the batteries. Use the labels in the battery tray to ensure the proper +/- orientation for each battery.

4. The battery cover can be reinserted the same way that it was removed: by lining up the posts (with the "this side up" label oriented as pictured) and twisting the cover so that the posts engage with the battery cover.
5. Replace the body of the keypad back onto the keypad by lining up the divot with the triangle on the keypad and rotating clockwise until the keypad body stops moving.

Low Profile Keypad

For Low Profile Keypads, do the following to access and install the backup battery:

1. If backup (emergency) power is needed, flip up the battery panel on the lower housing, which will release a battery strap.
2. Connect the 9V battery to the strap and use that power to get into the safe. After the safe door is opened, disconnect the 9V battery and fold the strap back into the Low Profile Keypad.

Specifications

Batteries

Standard Profile Keypad: 2 x 9V DC alkaline batteries (Eveready™ or Duracell™ strongly preferred)

Low Profile Keypad: 1 x 9V DC alkaline batteries (Eveready™ or Duracell™ strongly preferred, for emergency access)

Relay

12V DC @ 20 mA Max input

Environmental

Operating & Storage Temperature Range: For UL compliance, this product was verified for operation at 32 – 122 °F (0 – 50 °C)

Relative Humidity Range: 0 – 95% non-condensing

Safe Lock Models

Keypad Models 701, 702, 702D, 703, 703B, 704, 704B and 705 (Input Units Keypads) for use with High Security Lock Models 731 (Deadbolt), 732 (Springbolt), 733 (Swingbolt), and 734 (Redundant Lock).

Keypad Models 7BAS for use with High Security Lock Models 7B1 (Deadbolt) and 7B3 (Swingbolt).