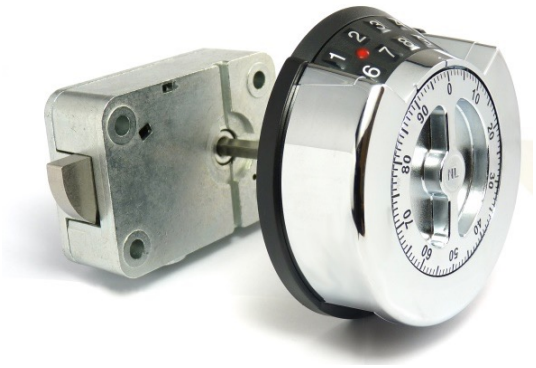
Duet RotoBolt



RR40•20 Technical Manual

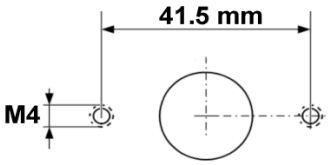
CHARACTERISTICS

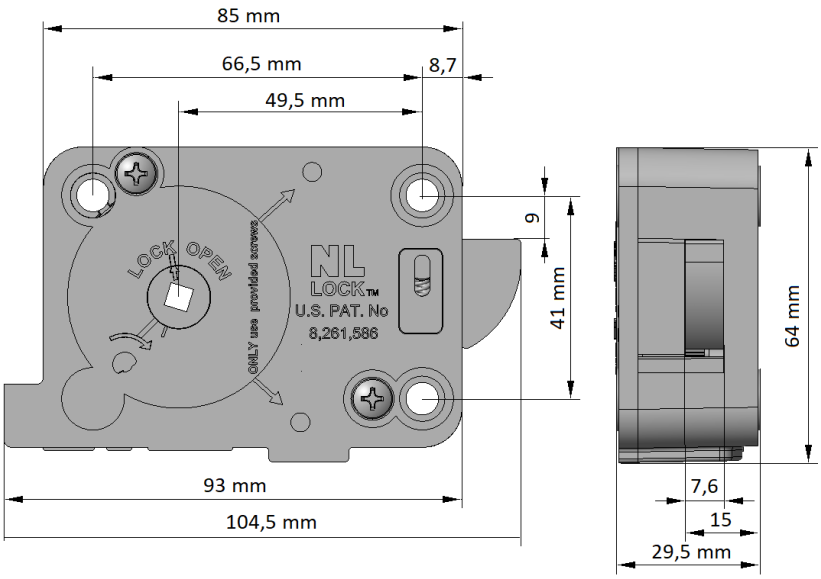
The Duet Rotobolt is an Electronic RotoBolt Lock with a manipulation-resistant 4-wheel mechanical combination override. It can be mounted in all four mounting directions. The Basic Electronics feature a 6-digit Main code that can be changed by the user. With the main code a secondary code can be activated and deleted. If a valid code has been entered, the lock electronic removes the blocking for 3 seconds and the boltwork can be moved into OPEN position by pushing the bolt inside the lock case. When moving the boltwork into LOCKED position the RotoBolt automatically secures. Mechanical openings follow standard 4-wheel locks operating procedures through entry integrated mechanical dial.

ENTRY UNITS

The Duet Rotobolt is compatible with the following NL LOCK Entry units (separate technical descriptions for Entry units are available). Entry unit cable hole on the safe door does not have to exceed 12 mm diameter

Duet Series:	
DI20	**DB20**



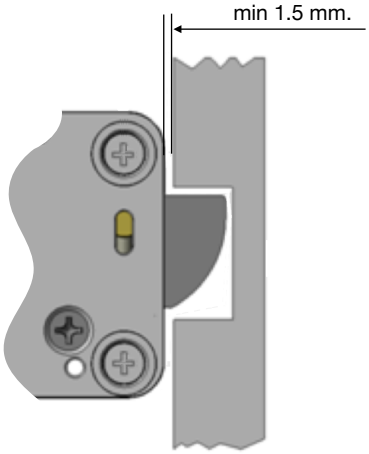


Important:

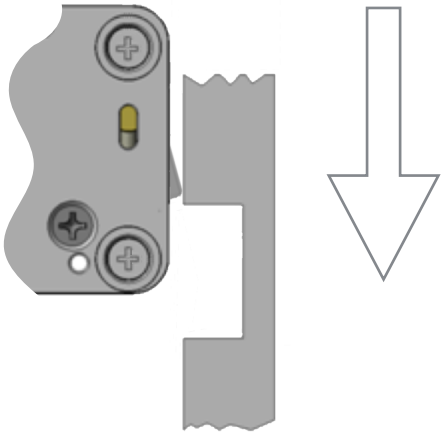
- Modifications to the lock (including lock bolt attachments) are not allowed, and will void the manufacturer's warranty and Standards approvals.
- No through holes on the safe door are allowed within the lock body area.
- Lock body area should be protected against destructive attacks

© 2017 Lock Technology

BOLTWORK REQUIREMENTS and MOUNTING SPECIFICATIONS



Lock bolt operations only allowed as described into the drawing and max load should not exceed 1KN.



If the Duet Rotobolt lock is used in conjunction with another lock, the boltwork must be constructed in a way that the Universal secures first.
In the LOCKED position the distance between the Universal bolt and the boltwork part that is moving the lock bolt should be approximately 1 mm.
Only use NL LOCK supplied screws (M6) to mount the lock. Lock has to be mounted on secure storage metal (preferred steel) units only. Tighten the screws securely so the lock body is attached firmly to the mounting surface. Use of screw locking glue (i.e. Loctite) is recommended.
Security relevant parts of a HSL should not be accessible to unauthorized persons when the door of the secure storage unit to which it is fitted is open

Test Electronics
Like all locks from NL LOCK this unit includes a unique feature to functionally test the electronics:
Function #5

STEP	TASK	REMARK
1	Press and hold [5] until a double signal sounds and the light stays ON.	
2	Enter the all keys in exactly this sequence: [1]-[2]-[3]-[4]-[5]-[6]-[7]-[8]-[9]-[0]	Push buttons slowly so you recognize the signaling of the lock. A double signal indicates that the keypad and the lock communicate and perform properly. A long signal indicates that the electronics may be damaged.

Functional Test

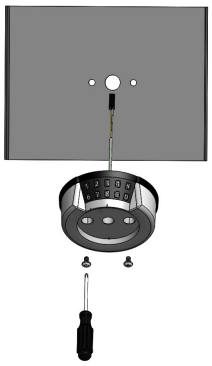
- Enter code (i.e. 1-2-3-4-5-6). The lock emits a double signal for the correct code.
- Turn boltwork handle towards OPEN position.
  The bolt rotates into the housing. Bolt must move freely.
- Turn handle towards Locked position.
  The lock bolt must fully extend and secure.
- Make sure there is an air space on all sides of the lock bolt when the safe's boltwork is fully thrown into locked position.

IMPORTANT: Perform the functional test several times before locking the safe door.

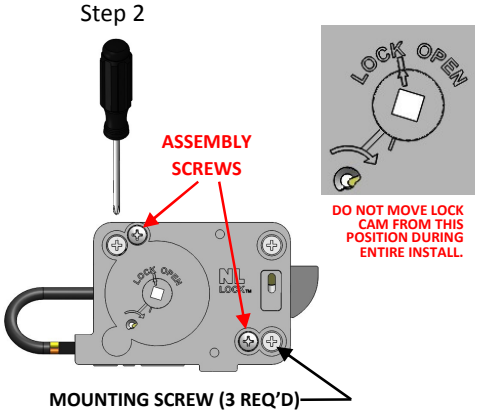
© 2017 Lock Technology

DUET ROTOBOLT INSTALLATION INSTRUCTIONS - DB20-XX ENTRY

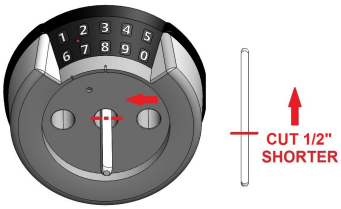
Step 1



Step 2



Step 3

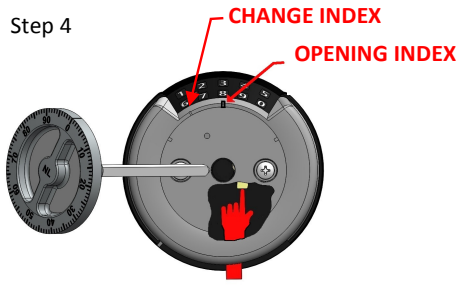


Step 1. Put the input cable through the center hole of the safe door. Using the mounting screws, mount the input onto the safe door. Tighten the screws.

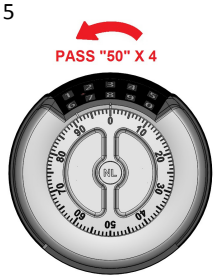
Step 2. Using the mounting screws, mount the lock in the correct posi on on the inside of the safe door. Plug the input connector into the ENT slot on the lock. LOCK CAM MUST BE IN THE "LOCK OPEN" POSITION.

Step 3. Insert the dial shaft into the lock un l it stops on lock cam. YOU MUST MAKE SURE THE DIAL SHAFT IS FULLY INSERTED BY LOOKING IN THE LOCK CAM FROM THE INSIDE OF THE SAFE DOOR. Mark the dial shaft at the surface marked by arrow. Pull out dial shaft and measure an additional 1/2" (12.7mm) shorter from the dial shaft mark. Cut the dial shaft and remove the sharp edges.

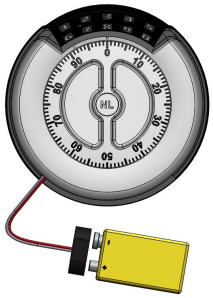
Step 4



Step 5



Step 6



Step 4. Put dial onto dial shaft and slide it into the input un l the dial stops. Make sure the dial number "92" is lined up with the center mark (opening index). From the inside of the battery compartment, press in the butt on fully and hold. Finish installing the dial by pushing the dial in and release the button.

Step 5. Dial the combina on by turning the dial LEFT and pass "50" four times and stop exactly on "50" the fi h me on the opening index. Turn RIGHT and stop on "92". Then turn the SAFE HANDLE to open the lock. Note: Due to installa on tolerances, it is possible that the code may have shifted up or down two numbers. This shifting is normal and will be eliminated once the code is reset. If the lock does not open on "50", try to open at "48" then "49", "51", or "52". Due to these tolerances, it is important to reset the code a er installa-on.

Step 6. Place 9V alkaline battery (Duracell TM) into the bottom compartment of the input and close the compartment door.

Step 7. (No Illustration) Enter the preset combination ELECTRONICALLY (5-5-5-5-5-5) and turn the SAFE HANDLE to open the lock.

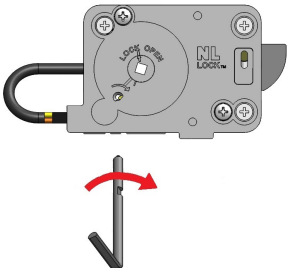
© 2017 Lock Technology

MECHANICAL COMBINATION CHANGING INSTRUCTIONS

Step 1

Using the changing index, turn the dial to the le and pass "50" five (5) times and then stop exactly on "50" the sixth me.

Step 2



Insert the change key into the hole marked with the arrow. Make sure that the change key is fully inserted and turn it to the right. DO NOT FORCE THE CHANGE KEY.

Dial the new combination to the changing index. **Important:** no simple codes which are easy to guess (e.g. 10-20-30-40) nor personal data (e.g. birthdays) or other data that could be derived from having knowledge about the code holder shall be chosen. Never write the code down. Keep it secret!

Step 3

5x

Turn right, pass first combination number four times and stop exactly on the number on the Changing Index the fifth time.

4x

Turn left, pass second combination number three times and stop exactly on the number on the Changing Index the fourth time.

3x

Turn right, pass third combination number twice and stop exactly on the num- ber on the Changing Index the third time.

2x

Turn left, pass fourth combination number once and stop exactly on the number on the Changing Index the second time.

Step 4

While holding the dial in place, turn the change key to the left and pull it out from the lock. If you do not hold the dial while doing this, it may cause the wheels to move and your combination will not work.

Step 5

Before closing the safe door, dial the new combination to the opening index using the dialing sequence in Step 3. After complete combination is entered, turn dial to the right and stop on "92" and then turn the safe handle to open the lock.

© 2017 Lock Technology