

AUDITCON® 2 SERIES LOCKS

MODELS 52, T52, 252, 552 - VERTICAL HOUSING DEAD BOLT

INSTALLATION INSTRUCTIONS

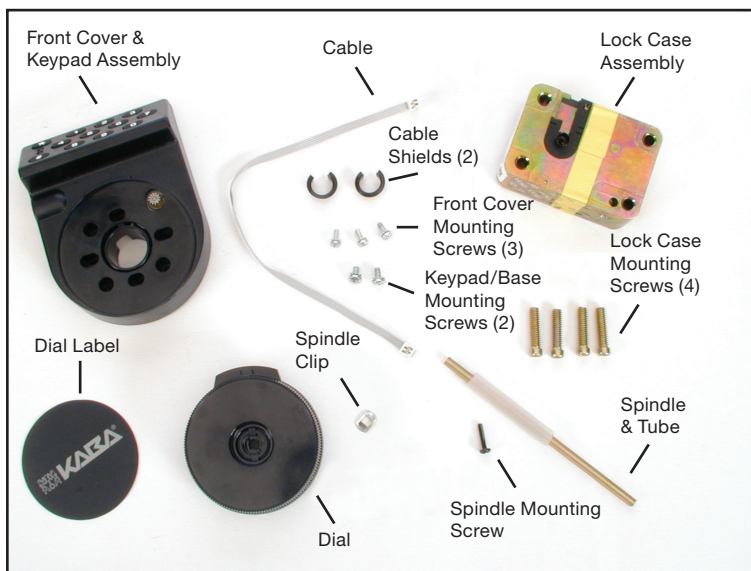


Figure 1 - Dead Bolt Lock Parts

The installation instructions are the basis for Security Agency Approvals. The lock installation must be done in accordance to these instructions in order to maintain the labeled approval level.

Design Parameters for Auditcon 2 Series Locks

1. Bolt dimensions (nominal): .312 inches x 1.000 inches/ 8 x 25.4mm
2. Bolt movement (nominal): .465 inches/11.8mm
3. Bolt extension: .465 inches/11.8 mm
4. Maximum load movable by the bolt: 5 lbs. (22N)

NOTE: Auditcon 2 dead bolt locks may not open if more than 5 lbs. (22N) of force is applied to the end or side of the bolt.

5. Maximum load against bolt when thrown (all directions): 224.8 lbs. (1kN)
6. The lock can be fitted to safes or vault doors of any material.

NOTE: As is the case with all mechanical and electronic locking devices, the container and boltworks must be designed to protect the lock.

Basic Tools and Materials Needed

- Medium Phillips head screwdriver (#2) (recommend magnetized tip)
- Fine pitch hacksaw (32 teeth/inch)
- Small flat file
- All-purpose scissors
- Tape measure or ruler
- ESD wrist band

Recommended, but not required:

- Torque screwdriver (30 inch-pounds/3.4 newton-meters capacity)
- Small vise grip
- Needle-nosed pliers
- Loctite, 262 (Red) for use on lock case mounting screws

WARNING: dormakaba locks are protected from 25,000 V Electrostatic Discharge (ESD) damage when correctly installed. Follow these precautions to avoid ESD damage when installing the lock:

- Handle the keypad assembly by the outer edge only.
- Use an ESD wrist band grounded to the lock or container during installation.

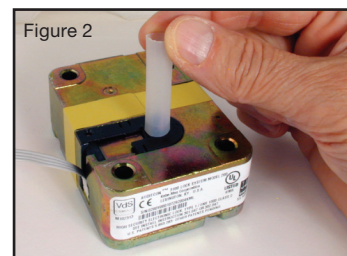
Prepare for New Installation of the Lock (If Required)

1. Use the installation template provided to establish the exact locations (relative to the spindle hole) of the mounting holes for the dial assembly and the lock assembly.
2. The spindle hole diameter can be a minimum of .406" (10.3mm) to a maximum of .438" (11.1mm). The .406" (10.3mm) diameter is recommended. Spindle hole must be deburred.
3. The dial assembly mounting screws require drilled and tapped holes to 3/8" (9.5mm) depth if possible (minimum 1/4" or 6.4mm depth required.) Drill either the two horizontal mounting holes or the two vertical holes.
4. When mounting the lock unit (i.e., integrating it in a boltwork), make sure that the lock bolt has clearance to freely move to its end positions and that the shifting force works only in the axial direction (direction of movement). Lateral forces should not be exerted on the lock.
5. If other parts of the boltwork are to be connected to the lock unit (e.g., for activating a blocking device), corresponding adapters can be fixed with screws (#10-32 or M4) to the front of the lock bolt (tightening torque for 15mm screwing depth: 200Ncm maximum).

Part I: Install Lock Case Assembly

WARNING: Do not take the lock case assembly apart. There are no field servicable parts inside lock case. This action will void the warranty.

1. Insert a cable shield into the deburred spindle hole from the back side of the container door.
2. Place the protective tube over the tube retainer on the lock case. (Figure 2)
3. While holding the lock case assembly, guide the tube through the spindle hole and place the lock case flush against the inside of the container door.
4. Mark the tube flush to the outside of the container door (to within 1/16" or 1.6mm).
5. Remove lock case assembly from door and cut the tube just inside your mark.



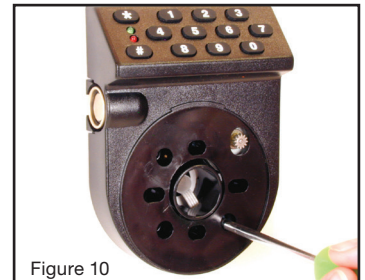
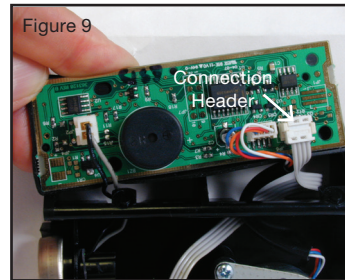
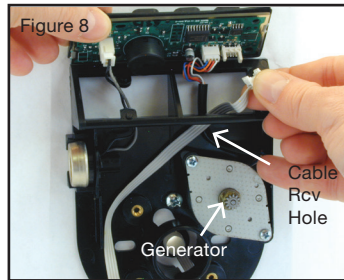
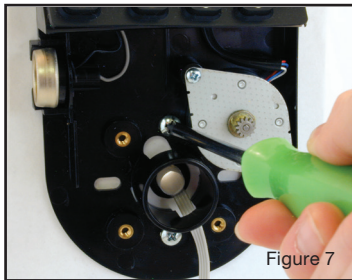
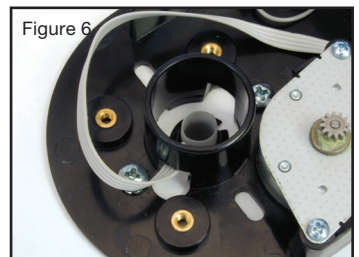
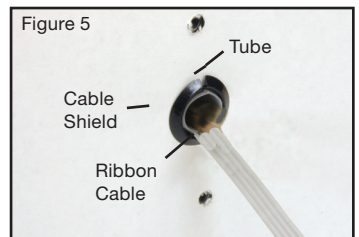
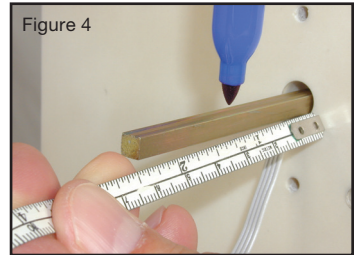
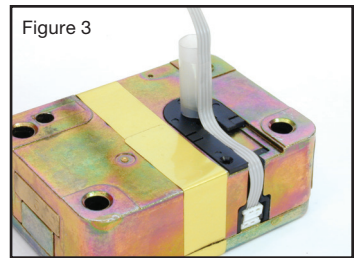
6. Plug one end of the ribbon cable into the connector on the bottom of the lock case. (Figure 3)
7. Lay the ribbon cable in the cable routing path on the lock case and tape the cable to the outside of the tube with the insulator tape provided. (Figure 3)
8. Hold the lock case assembly and carefully guide the loose end of the ribbon cable and the tube through the spindle hole so that they are accessible outside of the container door.
9. Mount the lock case assembly to the inside of the container door using the four 1/4-20 (or M6-1) lock case mounting screws. (Torque 25-30 lbs., 2.8-3.4 N-M)

NOTE: The lock case assembly can be mounted in all orientations for all mounting locations. It is recommended that you use Loctite, 262 (Red) on the lock case mounting screws.

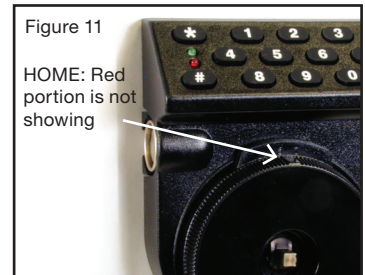
10. Insert the end of the spindle with the screw hole into the lock case assembly until the spindle is properly seated. The grooved side of the spindle should be oriented so that the grooves in the spindle align with the grooves in the drive cam. Turn the spindle so that the grooves are facing toward the bolt and the bolt is extended.
11. Mark the spindle shaft 1 1/4" (31.8mm) from the outside of the container door (plus or minus 1/8" or 3.2mm allowed). (Figure 4)
12. Remove the spindle from the lock case to prevent damage to the cable while cutting.
13. Cut the spindle on the mark, deburr, and lay aside.
14. Insert the second cable shield into the spindle hole from the front of the container with the cable feeding through the center of it. (Figure 5)

Part II: Install Front Housing Assembly

1. Remove the front cover from the keypad/base assembly.
2. Hold the keypad/base assembly in the upright position (keypad positioned at the top). Guide the ribbon cable through the appropriate cable receiving hole on the back of the keypad/base assembly (Figure 6), based on the orientation of the ribbon cable to the spindle.
3. Place the keypad/base assembly flush against the container door and align so that the dial bushing (Figure 6) is centered over the spindle.
4. Attach the keypad/base assembly to the container door using the two #8-32 (or M4-0.7) mounting screws. (Figure 7) Do not fully tighten screws.
5. Route the ribbon cable toward the keypad so that the cable will not be pinched by the generator. Gently lift the keypad board assembly and guide the cable up through the cable receiving hole in the keypad/base assembly. (Figure 8)
6. Insert the keyed Picoflex connector on the end of the ribbon cable into the connection header on the keypad. (Figure 9)



7. Fold the excess cable accordion style and place under the keypad assembly, positioning the cable and the keypad so that they will not be pinched when the front cover is snapped into place.
8. Center the front cover over the keypad/base assembly and gently snap into place.
9. Mount the front cover to the keypad/base assembly using the round mounting holes on the cover and the three #6-32 front cover mounting screws. (Torque 14-16 lbs., 1.6-1.8 N-M) (Figure 10)
10. Re-insert the spindle. Refer to Step 10 in the previous "Install Lock Case Assembly" section for proper positioning.
11. Hold the dial and orient the lip of the dial in the upright position so that it will cover the red bar on the front cover once placed onto the spindle. This is referred to as the "HOME" position. (See correct dial position in Figure 11.) Place the dial onto the spindle and seat into the dial bushing. Push gently on the dial so that the gear on the generator seats properly into the gear teeth on the dial.
12. While holding the dial in place, insert the #6-32 spindle mounting screw through the back of the lock case and into the end of the spindle. (Figure 12) Turn the screw until it is securely attached to the spindle. (Torque 14-16 lbs., 1.6-1.8 N-M) Verify that the spindle grooves are still facing toward the bolt and that the bolt is still extended.



13. Test the operation of the lock before completing the installation of the front cover by verifying the following:

- Ensure that the dial turns freely without scraping. If necessary, re-adjust the keypad/base assembly mounting screws, the position of the spindle, or replace the spindle completely.
- Power the lock by turning the dial briskly in any direction until simultaneous green and red flashes display and two beeps sound to indicate the lock is powered. Position the lock dial to the HOME position and key in the Factory Combination. (For a Model 52 or T52, enter "502550". For a Model 252 or 552, enter a two-digit number in the range from 01-20, followed by "502550".) If the combination is entered successfully, one green flash displays to indicate the lock is ready to open. To open, turn the dial right (clockwise) until the lock bolt is retracted. Then turn the dial back to the left to return the bolt to the extended position.

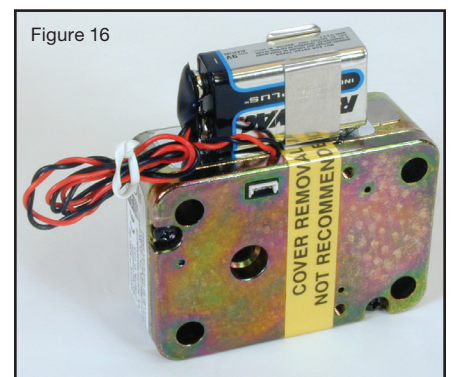
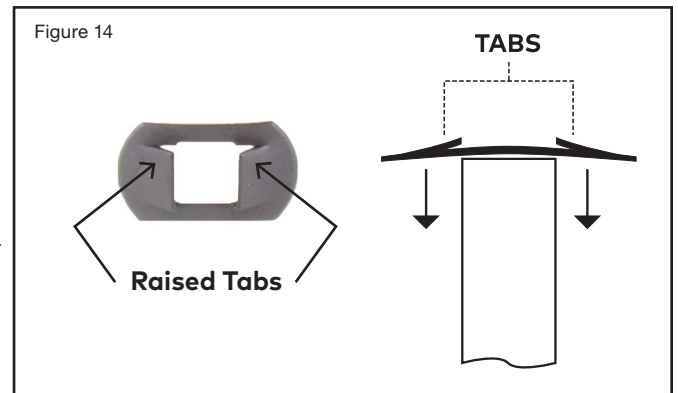
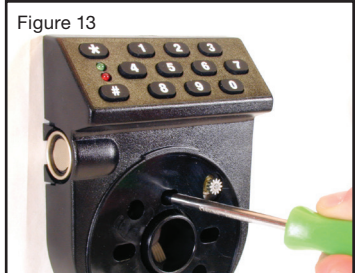
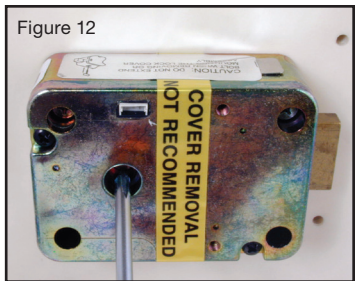
NOTE: After correctly entering a valid combination, you must retract the bolt within 4-6 seconds.

14. After successfully testing lock operation, hold the cover assembly in place and remove the dial.
15. Tighten the keypad/base assembly mounting screws. (Torque 17-20 lbs., 1.9-2.25 N-M) (Figure 13)
16. Apply a small amount of lubricant to the gear on the generator, the bearing surface of the dial (the portion that fits into the dial bushing of the base assembly), and the teeth around the edge of the dial.
17. Place the dial onto the spindle and seat into the dial bushing. Push gently on the dial so that the gear on the generator seats properly into the gear teeth on the dial.
18. Position the spindle mounting clip (Figure 14) over the spindle in the center of the front of the dial. The raised tabs should be facing out, away from the container. (The concave side of the clip should be facing toward the container.) Slide the clip down the spindle until the clip stops against the center portion of the dial. Check to make sure the outward dial movement (away from the container) has been held to a minimum.

CAUTION: To meet the requirements of certain approval agencies, a tamper evident dial label may have been included with your lock. It is important that the next step of the installation be completed very carefully, allowing the dial label to be applied correctly on the first attempt. If the tamper evident dial label is removed after initial application, a part of the label will stay on the dial. A new label would then be required for reapplication.

19. Orient the lip of the dial to the HOME position and apply the dial label to the dial. The Kaba logo should be aligned horizontally (Figure 15).
20. If your lock includes the Battery Assist option, you should now mount the battery clip inside the door near the lock and install a fresh 9 Volt Alkaline battery.

NOTE: To remove any excess cable or if you choose not to use the Battery Assist option, wrap and tie the battery assist cable (Figure 16).





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