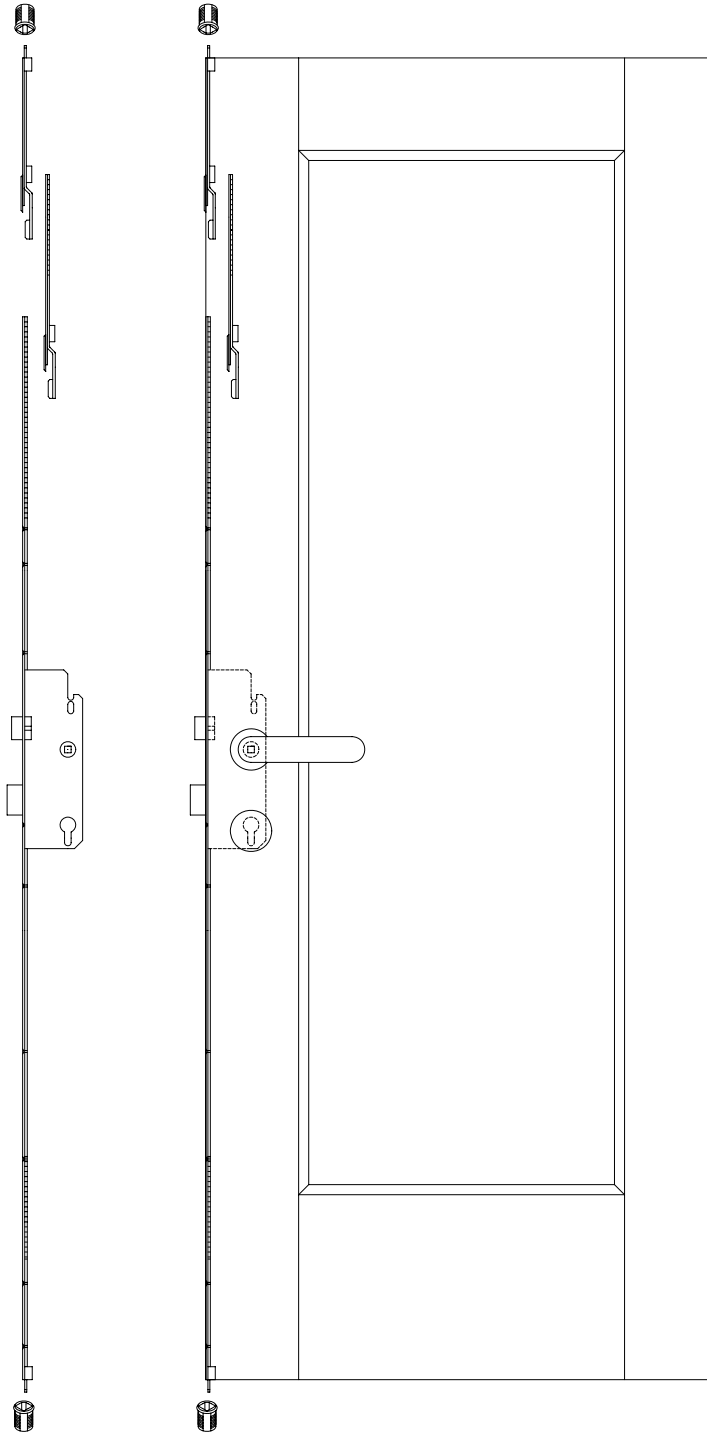


# Unitop® Model 1455-3 Door Lock

## *3-Point Locking Hardware*



All article descriptions and technical specifications herein correspond to the time of publication.  
FFI reserves the right to make modifications.  
FFI cannot assume liability for errors caused in printing or otherwise.

## **Table of Contents**

### **1.0 Basic Information**

- 1.1 Technical data

### **2.0 General Description**

- 2.1 Technical characteristics

### **3.0 Door Preparation**

- 3.1 Lock stile milling
- 3.2 Lockbox mortise

### **4.0 Lock Cutting & Mounting**

- 4.1 Lock cutting using standard handle height
- 4.2 Lock cutting using lowered handle height
- 4.3 Lock handing
- 4.4 Lock mounting

### **5.0 Strikes & Keeps**

- 5.1 Thimble keeps
- 5.2 Latch and deadbolt strike

### **6.0 Handle Trim & Profile Cylinder**

- 6.1 Handle trim
- 6.2 Profile cylinder

### **7.0 Operation & Maintenance**

- 7.1 Operation
- 7.2 Warranty
- 7.3 Maintenance

## 1.0 Basic Information

Congratulations on your purchase of this innovative product from AGB. Unitop® is a registered trademark of Alban Giacomo spa (AGB). The Unitop door lock complies with EU standards.

The Unitop model 1455-3 door lock can be assembled and installed by experienced personnel without difficulty by using this installation guide. This shall be verified in the case of complaints.

Arbitrary modifications and changes to the Unitop lock or its accessories are not permitted. Installation of products that are not original AGB products and the use of parts that have not been approved by AGB may negatively affect the given design characteristics of the locking device. All repairs must be conducted by authorized specialists and with original spare parts. The manufacturer will not accept liability for damages caused by failure to observe these instructions. This will also void warranty claims in any form.

### 1.1 Technical Data

*Type: Lift Lever Operation.*

*Door Height: min=1800mm; max. =3658mm*

*Faceplate: width=16 mm; thickness=2.5mm; length=1920 mm + upper shootbolt & extensions.*

*Lockbox Backsets: 35, 40, 45, 50, & 55mm.*

*Lockbox Depth: backset + 18mm.*

*Spindle Size: 8mm square.*

*Spindle Centers: 92mm.*

*Handle Height: set at 1050mm (standard); may be lowered to a minimum 948mm.*

*Shoot-bolt Throw: 15mm*

*Material: steel.*

*Finishes: yellow bichromate & silver zinc.*

## 2.0 General Description

The *Unitop Model 1455-3* is a multiple locking device (door lock) for swinging doors. This door lock is designed for the securing of the “active” (primary) door in a swinging double-door (“French”) system. This door lock ensures that the active door is securely locked by means of a central latch & deadbolt that inserts into the inactive door along with two vertical “shoot-bolts”, one that secures the top of the door to the head jamb and one that secures the bottom of the door to the sill. A reverse mechanism, contained in the lock case, allows the upper and lower drive rods to move in opposite directions. The reverse gearbox commonly installed at the end of one rod is thus eliminated. The locking is more secure and the mechanism is simpler and more practical.

The lock is not handed and is easily reversed with a screwdriver. Its self-adjusting spring latch is inclined and rounded on both sides. This shape guarantees a perfect closing of the door. An upward motion of a lever style handle only engages the deadbolt and shoot-bolts. They are disengaged by downward motion of the handle. The handle may be locked from movement by the use of a manually activated European lock cylinder (optional).

The Unitop lock is suitable for all types of door materials. The door lock-stile must be milled or equipped with a “Euro” hardware groove for mounting of the locking hardware. The door head jamb and sill must be able to accept a “thimble” type keep for receiving of the shoot-bolts. The Unitop model 1455 lock may be installed in private homes, public and commercial buildings.

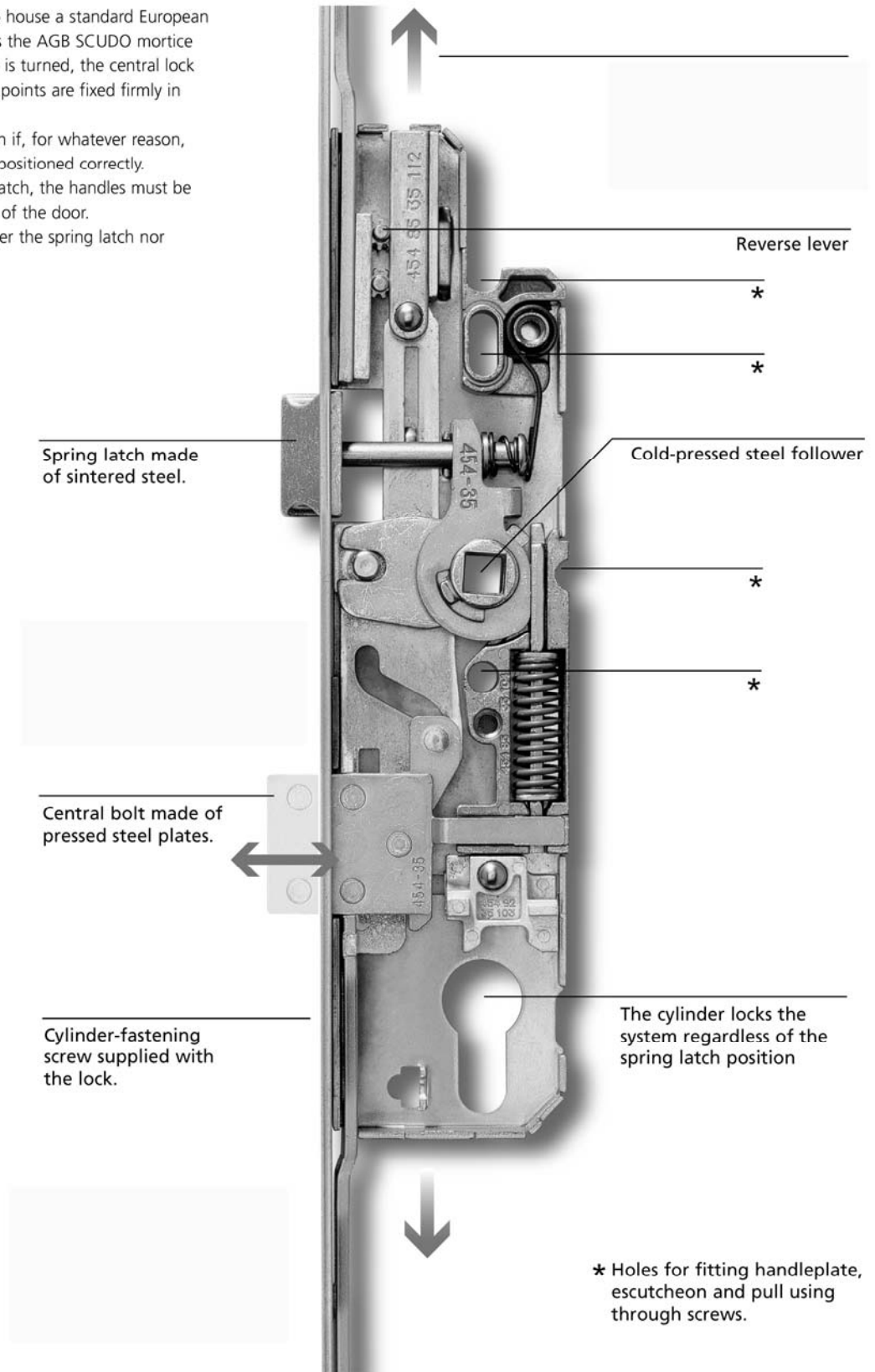
**2.1 Technical Characteristics**

The lock is designed to house a standard European profile cylinder, such as the AGB SCUDO mortice cylinder. When the key is turned, the central lock and peripheral locking points are fixed firmly in place.

Locking is ensured even if, for whatever reason, the spring latch is not positioned correctly.

To operate the spring latch, the handles must be installed on both sides of the door.

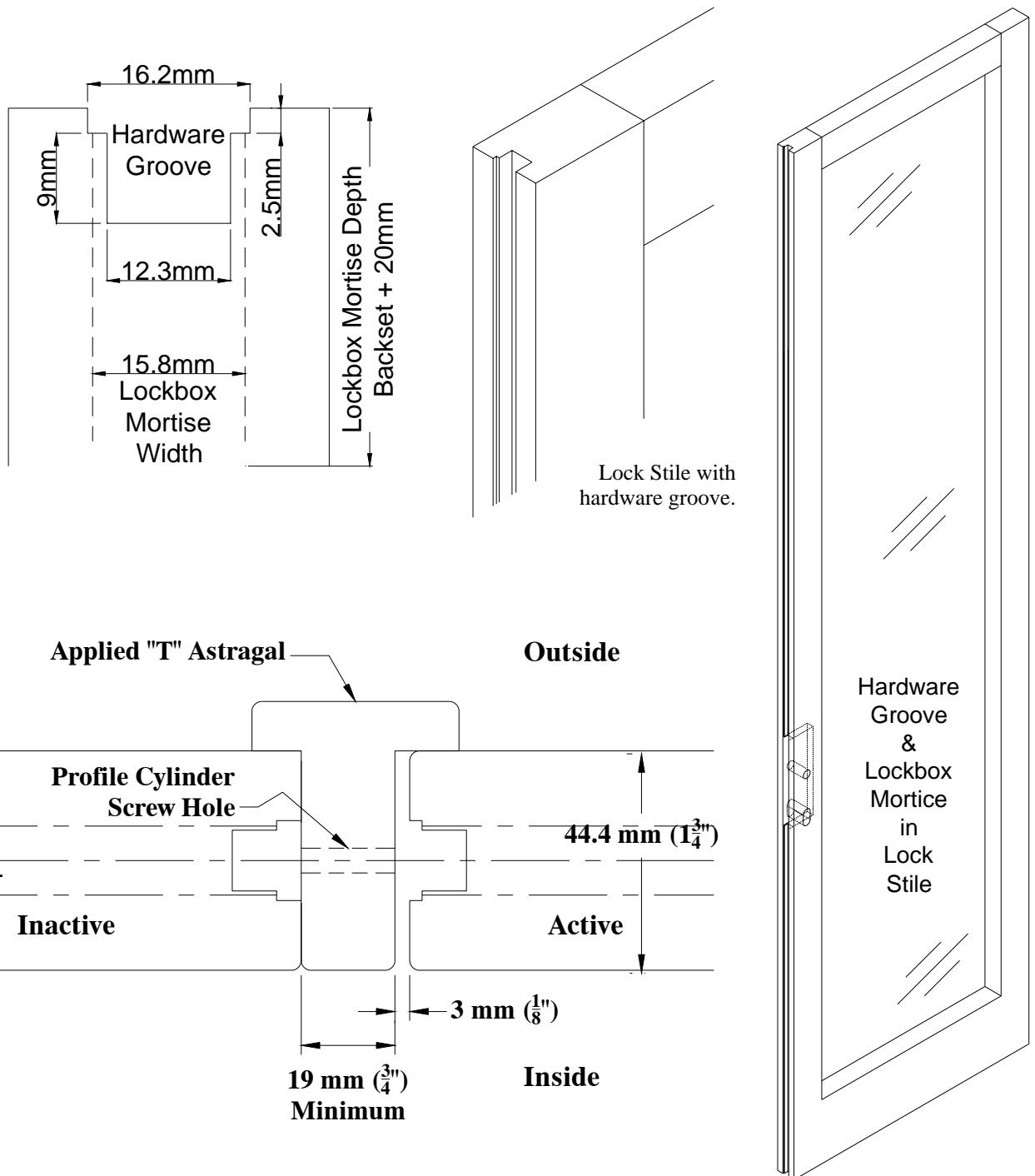
The key operates neither the spring latch nor the bolt.



**3.0 Door Preparation**

**3.1 Lock Stile Milling**

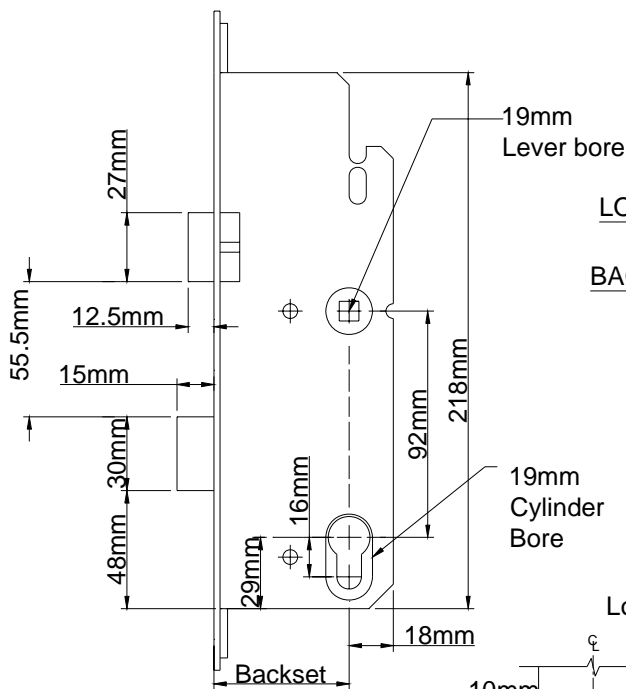
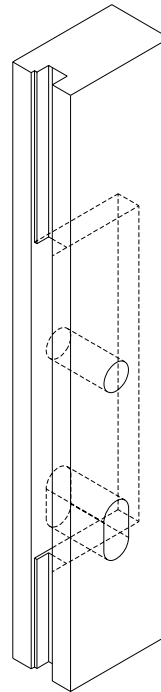
Refer to the figures below and mill the hardware groove in the lock-stile. A special cutter is available for the hardware groove from Functional Fenestration, Inc. for shaper machines.



### 3.3 Lockbox Mortise

Determine the handle height to be used. The Unitop Model 1455-3 lock comes with a standard handle height of 1050 mm (41.34"). Using this handle height will mean that no cutting will need to be done on the lock bottom. You may attain a handle height as low as 748 mm (37.32"). See section 3.4. Refer to the figures and mortise for lock box, handle spindle, trim and profile cylinder (optional).

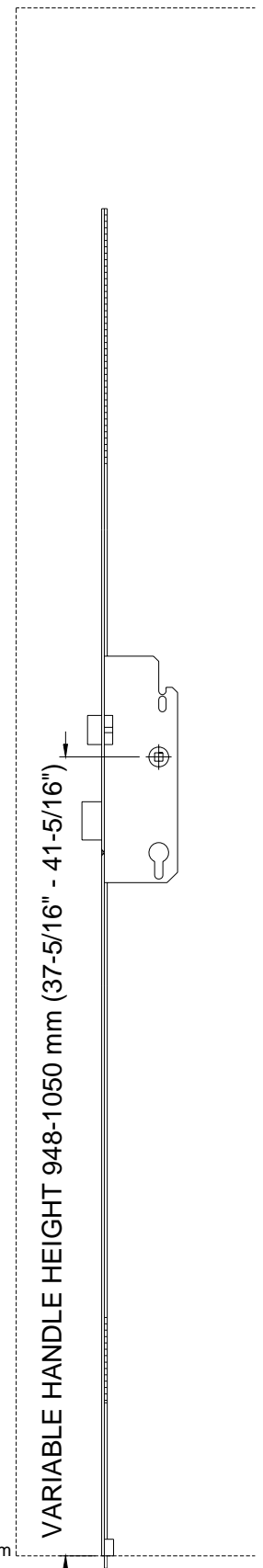
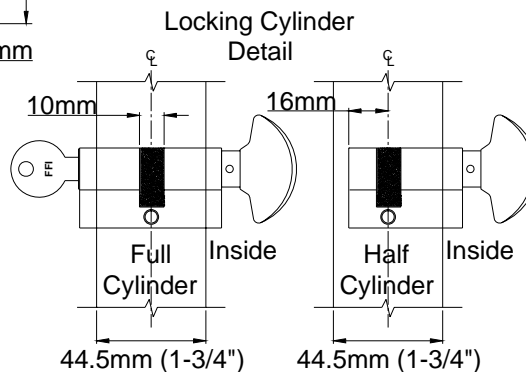
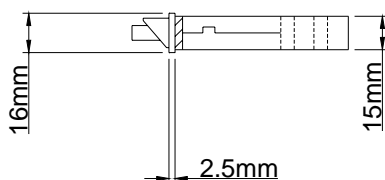
**Note:** If a handle is not needed on the exterior side make sure not to drill thru for the spindle. If a full locking cylinder is used drill thru. If a half locking cylinder is used do not drill thru. If no locking cylinder is used do not drill for it. Take this into consideration for trim also.



**LOCKBOX MORTISE DEPTH**

BACKSET	DEPTH
35	55
40	60
45	65
50	70
55	75

**LOCKBOX MORTISE WIDTH=15.8mm**



**4.0 Lock Cutting & Mounting**

**4.1 Lock Cutting Using Standard Handle Height**

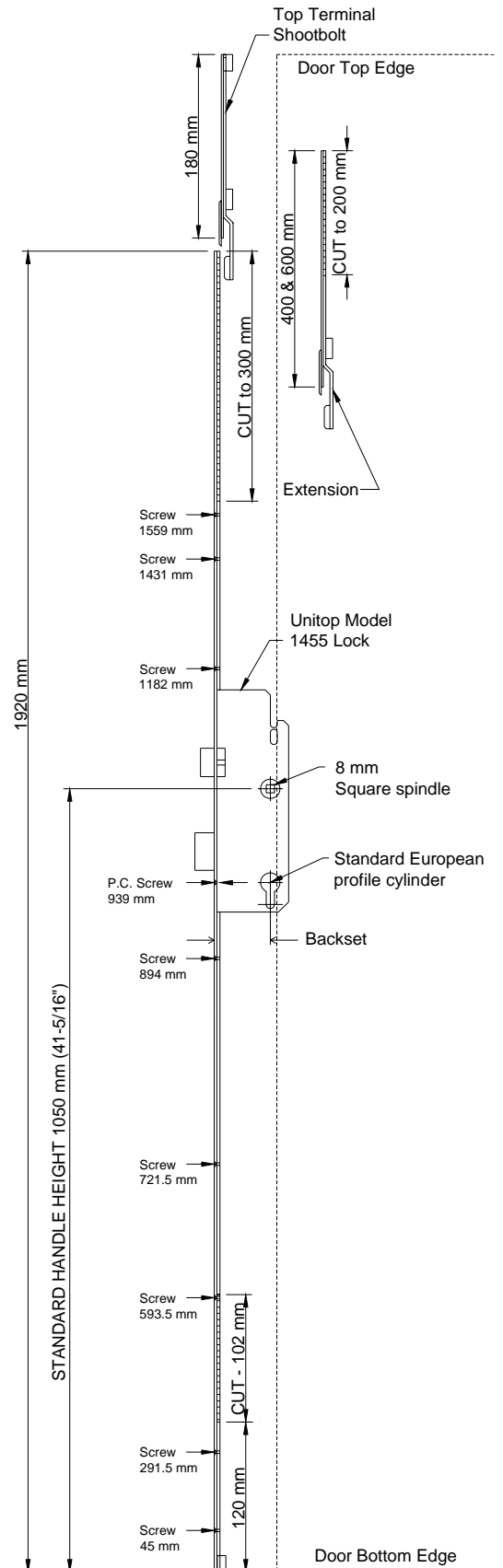
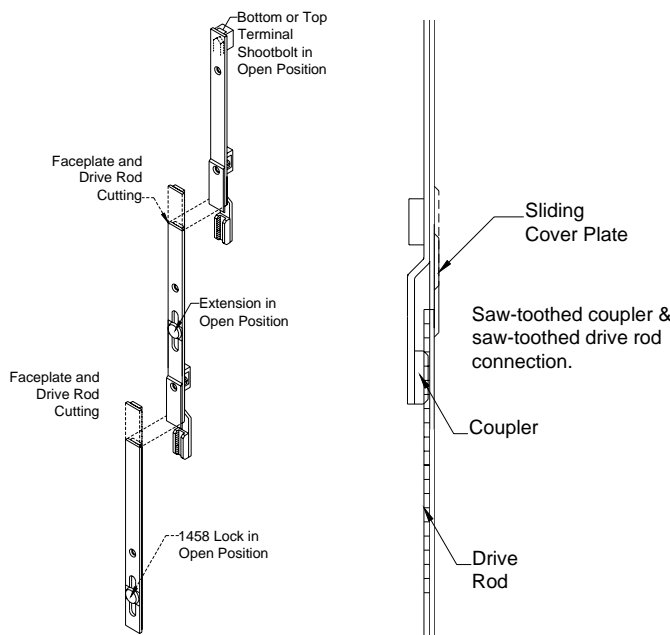
Refer to the figures on this page. When using the standard handle height of 1050 mm no cutting below the lockbox is necessary.

Make sure the 1455-3 lock, extensions and top terminal shoot-bolt are in the open position (see note below). Position the 1455-3 lock in the door lock-stile. The bottom of the lock should be flush with the bottom door edge. Position the top terminal shoot-bolt so that it is flush with the top edge of the door. Position any extension(s) between 1455-3 lock and top terminal shoot-bolt. Mark the faceplates of extension(s) and/or lock where they touch so that when connected the top terminal shoot-bolt it will be flush with the door top edge. Connections are made by mating saw-toothed coupler with saw-toothed drive rod. Using a vise and hacksaw, cut the 1455-3 lock to length (both faceplate and saw-tooth drive rod).

The sliding cover on the faceplate plate will hide any minor gap or cutting imperfection.

Remove lock, any extensions and top terminal shoot-bolt from door lock stile.

**Note:** The top terminal shoot-bolt and extensions should come in a "locked open" position. This is to help in the cutting process. When all hardware is fitted and mounted a simple movement of the handle lever will "unlock" these pieces.



**4.2 Lock Cutting using Lowered Handle Height**

Refer to the figures on this and the preceding page. When lowering the handle height cutting below the lockbox is necessary with the addition of a bottom shoot-bolt terminal. *The lowest the handle may be located is 748 mm (37-5/16") from the door bottom edge.*

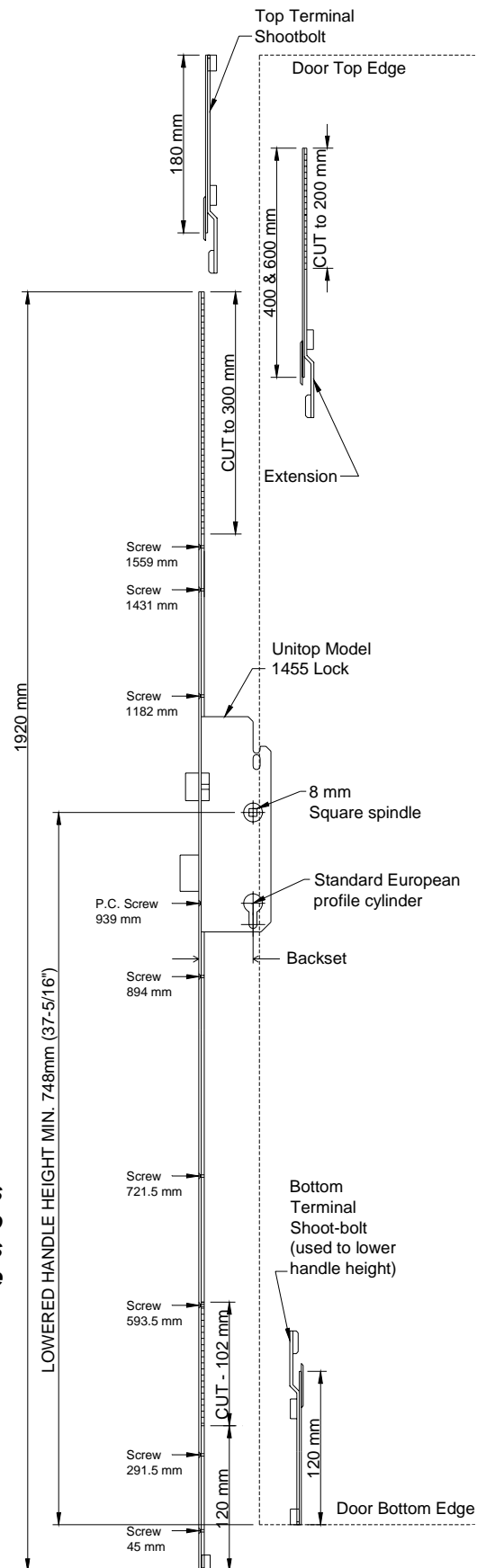
Make sure the 1455-3 lock, extensions, top and bottom terminal shoot-bolts are in the open position (see note below). Position the 1455-3 lock in the door lock-stile. Because the handle height is being lowered the bottom of the lock will not be flush with the bottom door edge. Position the bottom terminal shoot-bolt flush with door bottom edge. Mark the 1455-3 lock faceplate where it touches the bottom terminal shoot-bolt faceplate so that when connected the lower terminal shoot-bolt will be flush with the door bottom edge. Connections are made by mating saw-toothed coupler with saw-toothed drive rod. Using a vise and hacksaw, cut the 1455-3 lock to length (both faceplate and saw-tooth drive rod).

Position the top terminal shoot-bolt so that it is flush with the top edge of the door. Position any extension(s) between 1455-3 lock and top terminal shoot-bolt. Mark the faceplates of extension(s) and/or lock where they touch so that when connected the top terminal shoot-bolt it will be flush with the door top edge. Connections are made by mating saw-toothed coupler with saw-toothed drive rod. Using a vise and hacksaw, cut the 1455-3 lock to length (both faceplate and saw-tooth drive rod).

The sliding cover on the faceplate plate will hide any minor gap or cutting imperfection.

Remove lock, any extensions and top & bottom terminal shoot-bolts.

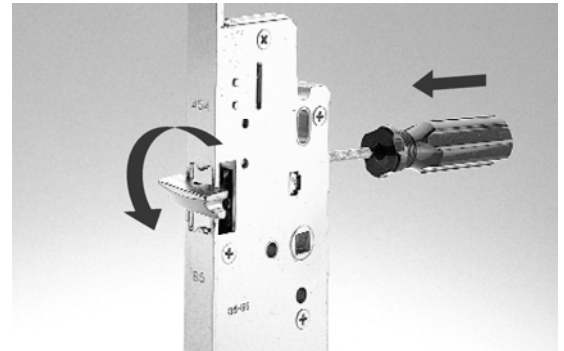
**Note:** *The top terminal shoot-bolt and extensions should come in a "locked open" position. This is to help in the cutting process. When all hardware is fitted and mounted a simple movement of the handle lever will "unlock" these pieces.*





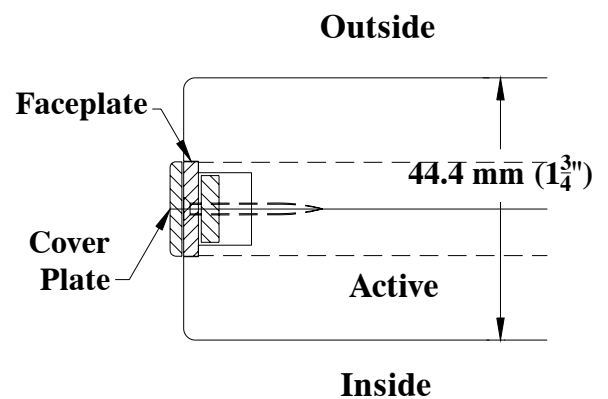
**4.3 Lock Handing**

The Unitop model 1455-3 lock has a reversible self-adjusting spring latch. Before installing lock in door lock-stile make sure you have the correct handing. To change the handing insert a Phillips screwdriver as shown in figure and push in so that latch is moved out of lock body and then twist.



**4.4 Lock Mounting**

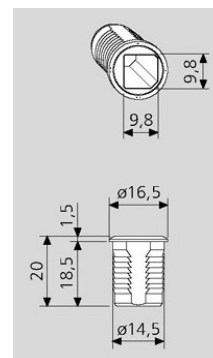
Re-insert 1455-3 lock assembly in door lock-stile making sure the top and bottom of assembly is flush with door edges. Make sure sliding cover plates are moved to cover faceplate joints. Use 3.5 x 30 mm flathead wood screws to secure lock assembly in door lock-stile edge. **Do not over tighten screws.** Insert lever handle and operate to make sure shoot-bolts extend and the lock is operating smoothly.



**5.0 Strikes & Keeps**

**5.1 Thimble Keeps**

After door has been properly hung in frame, close door completely, lift up lever handle to extend shoot-bolts enough to mark position of shoot-bolt thimble keep. Open door. Use the appropriate drill diameter (the thimble keeps should have a snug press fit) and drill in head and sill for each thimble keep. Insert thimble keeps. Close door and check to make sure shoot-bolts engage into thimble keeps properly. Adjust accordingly.



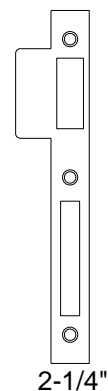
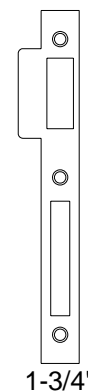
A20026.01.06



D00301.10.01

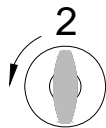
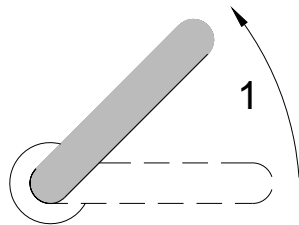
**5.2 Latch and Deadbolt Strike**

After the active door has been properly hung in the frame. Open the active door and fully engage locks. Carefully close the active door until the deadbolt touches inactive door astragal (watch the shoot-bolts). Approximate the location of the latch and deadbolt strike and mark as required. Mount strike to astragal. Install trim.



## 6.0 Operation & Maintenance

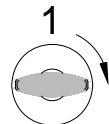
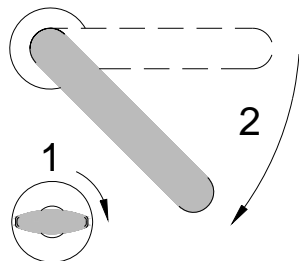
### 6.1 Operation



#### **Locking**

1. Lift the lever handle 45° to engage the top and bottom shoot-bolts and throw deadbolt.
2. Turn the profile cylinder knob or key until it stops to lock. (approximately 1-3/4 turns).

Note: In the locked position the handle can be lifted up but not lowered down. This effectively locks the door.



#### **Unlocking**

1. Turn profile cylinder knob or key until it stops to unlock. (approximately 1-3/4 turns).
2. Push the lever down 45° to retract the top and bottom shoot-bolts, deadbolt and latch.

Note: In the unlocked position the handle can be moved up or down. Lifting the handle up engages the "shoot-bolts". Pushing the handle down will retract the latch.

### 6.2 Warranty

Each of the Alban Giacomo spa (AGB) products is expressly warranted for a period of one (1) year from the date of original purchase under normal installation and use, against defects in material and workmanship.

Not covered by the warranty: damage arising from improper use, modification, fitting or storage or normal wear or defects that have negligible effect on the value or operation of the product. The warranty becomes void if repairs are undertaken by unauthorized persons. Normal environmental corrosion is not covered by warranty.

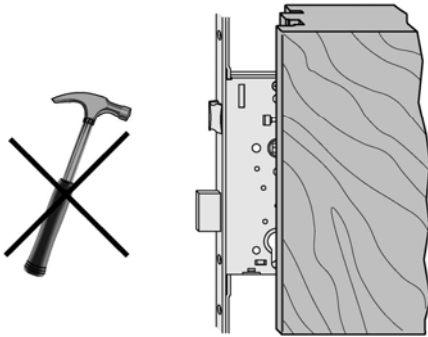
AGB's liability for any defective product is limited to the repair or replacement of said product at our option, and shall not include damages of any kind, whether incidental, consequential or otherwise. Any claim must be made according the above paragraphs and the goods must be returned freight free.

**6.3 Maintenance**

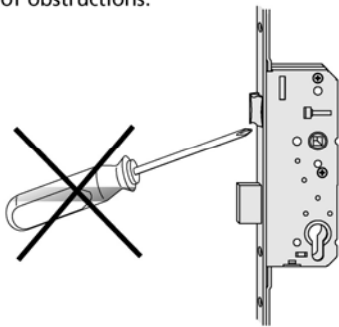
- 1) For **operation** and **installation** follow the catalogue instructions.



- 2) **Do not use** a hammer to mount the lock. Keep the lock mechanisms clean of wood chips and filings.



- 3) **Never force the lock.** If the mechanism is jammed or does not work smoothly, make sure the strikes and visible moving elements are free of obstructions.



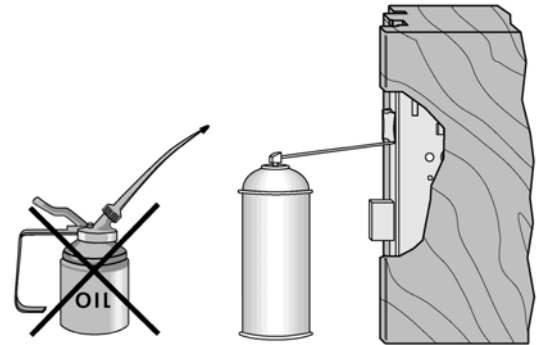
- 4) **Do not expose** the products to environments where aggressive chemical agents are used, such as buildings under construction, rooms where floors are being cleaned, etc.



- 5) **To clean** use a soft dry cloth. Do not use abrasive products or solvents.



- 6) **Lubricate** the operating parts of the lock at least once a year using a silicone spray. Do not use oil or grease.



- 7) **Do not paint** the forend of the lock.

