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5.1.3 Roses/door handles ............................................................................................................................... 31
Revision history
FCC/ISED (IC) statements

FCC (Federal Communications Commission) statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
   (1) this device may not cause harmful interference, and
   (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference; in which case, correction of the interference is at the user’s expense.

Important: Changes or modifications to an intentional or unintentional radiator not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

The LCU must be labeled to say 'FCC ID: Y7V-LCU6334' or 'FCC ID: Y7V-LCU6333', depending on which LCU (lock controller unit) that is applicable.

ISED (IC) statements

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
   (1) this device may not cause interference, and
   (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:
   (1) l'appareil ne doit pas produire de brouillage, et
   (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

The LCU is labeled 'IC:9514A-LCU6334' or 'IC:9514A-LCU6333', depending on which LCU (lock controller unit) that is applicable.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

Le terme "IC" devant le numéro de certification signifie seulement que les specifications techniques Industrie Canada ont été respectées.
1. Introduction

The purpose of this document is to give the distributors of Essence locks sufficient information to install and support this type of lock. This manual contains descriptions and drawings needed for installation, maintenance and troubleshooting of Essence. Site survey before installation is also covered in this document. The Essence lock can be used together with
- the Visionline system
- the VingCard Vision system

Where nothing else is stated, the information in this manual is common for both systems. All dimensions in this manual (where applicable) are given in mm and inches.

**Important:** LCU 6334 (lock controller unit) contains Visionline lock firmware at delivery. If instead VingCard Vision is applicable, a Fail Safe Programming card encoded in VingCard Vision must be presented to the lock before first initialization. The swap is performed by reading VingCard Vision firmware from the EEPROM and then overwriting Visionline firmware in the LCU. For LCU 6333, see Appendix E.

**Note:** If online is applicable, Visionline must be used; see Appendix D for more details.

**Note:** This document gives some basic information about cylinder installation, but for details about recoding cylinders etc, see the document Classic/Signature/Essence cylinder option.

**Important:** Essence can only be installed in non-metallic doors.

**Important:** It is recommended to have maximum 7mm (17/64'') from the outer door blade to the front plate; always discuss and make an individual test together with the door manufacturer to check the reading performance.

Figure 1: Recommended mounting of VingCard Essence lock

**Appendix F** in this manual contains a summary of the tips, important notes and cautions from the different sections of this manual. It can be used as an overview and a reference for different phases of Essence installation, from site survey to completion.
1.1 Lock Controller Unit (LCU) labels

![LCU labels](image)

Figure 2: Labeling of LCU. The LCU has one label showing the LCU number etc, and another label showing article number with revision, manufacturer etc.

1.2 Tests and certification

The following tests have been approved:
- IEC 60950-1:2005 (2nd edition); Am 1:2009
- ETSI EN 300 330
- R&TTE directive;
  - EN 301 489-01 (V1.8.1)
  - EN 301 489-03 (V1.4.1)

<table>
<thead>
<tr>
<th>EN</th>
<th>European Norm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETSI</td>
<td>European Telecommunications Standards Institute</td>
</tr>
<tr>
<td>IEC</td>
<td>International Electrotechnical Commission</td>
</tr>
<tr>
<td>R&amp;TTE</td>
<td>Radio and Telecommunications Terminal Equipment</td>
</tr>
</tbody>
</table>

*Table 1*
2. Site survey

Before any order is placed, a site survey must be performed. Details that are determined during the site survey are e.g.

- length of screws, pins and cylinders
- opening direction
- lock case type
- lock case dimensions
- striker plate

A thorough and accurate site survey for every door is absolutely essential for the successful execution of the order and the installation itself.

Appendix B contains a form where site survey notes can be filled in.

2.1 Door dimensions

![Figure 3: A-, B- and C-dimensions](image)

- The A-dimension is the entire door thickness.
- The B-dimension is the dimension from the outside door edge to the center of the lock case.
- The C-dimension is the dimension from the inside door edge to the center of the lock case.
The A-, B- and C-dimensions are important to know when ordering Essence or certain parts for it. See Appendix A: Part dimensions table for Signature/Essence for detailed information about length of screws, spindles etc. according to the A-, B- and C-dimensions.

Minimum door thickness:

<table>
<thead>
<tr>
<th>A-Dimension</th>
<th>B-Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>38 mm; 1.50&quot;</td>
<td>16 mm; 0.63&quot;</td>
</tr>
</tbody>
</table>

*Table 2: Minimum door dimensions; applicable for all ANSI types and all EURO types*

Maximum door thickness:

<table>
<thead>
<tr>
<th>A-Dimension</th>
<th>B-Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>129 mm; 5.087&quot;</td>
<td>56 mm; 2.205&quot;</td>
</tr>
</tbody>
</table>

*Table 3: Maximum door dimensions; applicable for all ANSI types and all EURO types*

### 2.2 Door handing

![Door handing diagrams](image)

*Figure 4: Door handing; for explanation, see Table 4.*

Always make sure to have the correct handing of all the doors in question.

<table>
<thead>
<tr>
<th>LH</th>
<th>Left handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH</td>
<td>Right handle</td>
</tr>
<tr>
<td>RHR</td>
<td>Right handle, retract</td>
</tr>
<tr>
<td>LHR</td>
<td>Left handle, retract</td>
</tr>
</tbody>
</table>

*Table 4: Explanation of door handing abbreviations*
2.3 Type of lock case to be ordered (EURO/ANSI)
Always take the A-dimension in account for the type of lock case to be ordered. Find out which standard (ANSI or EURO) that applies for the property. If the door already has a cut-out, check if the width and shape of the lock front fit any of the standard ANSI or EURO lock front dimensions.

![Figure 5: Available heights and widths for ANSI and EURO lock cases](image)

2.3.1 ANSI lock case orientation

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA</td>
<td>the <strong>Dead-bolt</strong> is <strong>Above</strong> the latch</td>
</tr>
<tr>
<td>DB</td>
<td>the <strong>Dead-bolt</strong> is <strong>Below</strong> the latch</td>
</tr>
</tbody>
</table>

Figure 6: ANSI (DA) lock case; all variants
Figure 7: ANSI (DB) lock case; all variants

Table 5: ANSI lock case orientation
2.4 Dimension requirements

Check the following dimension requirements:

1. The gap between lock front cover and striker plate must not exceed 3 mm; 0.118".
2. For all types of ANSI lock cases, allow at least 25.4 mm (1") depth behind the striker plate hole for the deadbolt. (Except ANSI AUS = 0 mm and ANSI JPN = 21 mm). Allow 21 mm for EURO lock cases.
3. For all types of ANSI lock cases, allow at least 19 mm (0.748") depth behind the striker plate hole for the latch. Allow 14 mm for EURO lock cases.
4. Make sure that the lock case, door handles or cylinder does not get in conflict with i.e. glass windows or ornaments/decor on the door.

See section 3.1 for an overview of available cut-outs.

**Important:** The hole for the cylinder is optional and is only to be cut out for locks equipped with cylinders and only from the outside of the door to the center of the lock case; i.e., not through the entire door.

**Important:** If you are going to install the security cylinder Hydra, remember to make space for the cylinder fastening clip when making the cut-out for the lock case.
2.5 Check the door frames/striker plates
Check if you can use ANSI or EURO standard striker plate or if you need to order a customized striker plate.

Check if the door frame is a wooden frame or a steel frame. This will decide what kind of tools you will need for the installation.

The lock case and the striker plate dimensions figure above show the lock case center line (CL); see dot and dash line through the figure above. The CL is important for the positioning of the lock case, striker plate and escutcheon onto the doors.

Position of the ANSI standard striker plate:
The striker plate is positioned in the frame so that the bottom of the striker plate is 30 mm (1.18") above the bottom of the lock case; see Figure 8. Horizontally, the B- or C-dimension (see Figure 3) will apply depending on the direction of the door and the center/rebate orientation.

Note: Be aware if there is any door gasket.

2.6 Beveled doors
If the door is beveled (edge is not at 90° to door), the dimensions should be based on the shortest side. Standard beveling is 3.2 mm; 1/8".
2.7 Rebated doors
When it comes to rebated doors and rebated frames, be extra observant regarding protrusion for the deadbolt on the frame side. See Figure 10 for examples of rebated doors and door frames.

Figure 10: Examples of rebated doors and door frames
3. To mortise the door

Before installing the lock in the door, the door and door frame must be mortised to fit this type of lock. The mortising should be based on the dimensions shown in the applicable cut-out; see section 3.1 for an overview of available cut-outs.

The position of the lock case (lock case center line) has to be set according to the ANSI standard and be level from the floor. American Disabilities Act (ADA) requirements demand a maximum of 1220 mm (48") height to the highest point of operation.

3.1 Cut-outs
The following cut-outs are available:

<table>
<thead>
<tr>
<th>Description</th>
<th>Online/Offline</th>
<th>Document number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI (DA) with cylinder</td>
<td>Online</td>
<td>AN-151</td>
</tr>
<tr>
<td>ANSI (DA) with cylinder</td>
<td>Offline</td>
<td>AN-158</td>
</tr>
<tr>
<td>ANSI (DA) without cylinder</td>
<td>Online</td>
<td>AN-148</td>
</tr>
<tr>
<td>ANSI (DA) without cylinder</td>
<td>Offline</td>
<td>AN-157</td>
</tr>
<tr>
<td>ANSI (DB) with cylinder</td>
<td>Online</td>
<td>AN-152</td>
</tr>
<tr>
<td>ANSI (DB) without cylinder</td>
<td>Online</td>
<td>AN-149</td>
</tr>
<tr>
<td>EURO with cylinder</td>
<td>Online</td>
<td>AN-153</td>
</tr>
<tr>
<td>EURO without cylinder</td>
<td>Online</td>
<td>AN-150</td>
</tr>
</tbody>
</table>

Table 6
3.2 To mortise for the lock case
Determine where the positioning of the lock case center line (CL) shall be, and make the cut-out according to Figure 11.

![Figure 11: Cut-out for ANSI (DA) lock case](image)

**Important:** The lock front can be delivered with a width of 32 mm (1.26"), 28 mm (1.102") or 25 mm (0.984"). Make sure that you mortise the door to the correct dimensions for your lock dimensions. Check the dimensions of the lock before you start cutting.

**Important:** If you are going to install the security cylinder Hydra, remember to make space for the cylinder fastening clip when making the cut-out for the lock case; see the document *Classic/Signature/Essence cylinder option* for more details.

3.2.1 Tools needed to make the cut-out for the lock case
Hammer and chisel are needed to make the corners for the lock front.
3.3 To mortise for the striker plate

![Figure 12: External striker plate dimensions and cut-out dimensions for ANSI (DA).](image)

**Note:** Be aware of the dimension 30 mm (1.181") from the edge of the lock case to the edge of the striker plate.

Before mortising for the striker plate, make sure to align the side template vertically and horizontally according to Figure 12. Use the center line (CL) for the lock case as a reference. Position the striker plate so that the bottom of the striker plate is 30 mm (1.18") above the bottom of the lock case.

**Caution:** If the cut-out for the deadbolt is less than 25.4 mm (1") deep, the deadbolt may not be retracted by use of a metal key in case of an emergency when the door is double locked (ANSI AUS = 0, ANSI JPN = 21).

**Caution:** Be aware if there is any door gasket. If so, compensation must be made by adjusting the horizontal positioning of the striker plate.

**Important:** If the striker plate is not used (example: steel frame), it is important that the distance between the latch (lower) cut-out and the deadbolt cut-out must be 12 mm (0.47") in order for the auxiliary latch to work.

3.3.1 Tools needed to make the cut-out for the striker plate

Use an ordinary drilling machine, hammer and chisel.
4. To install the lock

4.1 Necessary tools for the installation

The tools shown in Figure 13 are needed for assembly of the lock:
- Torx T20S screwdriver
- cross-head screwdriver
- if cylinder is applicable: 2 mm Allen key (only used to fasten the cylinder fastening screw)

4.2 Door handle selection

It is possible to choose between a variety of standard door handles.

Figure 14: Standard Essence door handles
### 4.3 Exploded view

Figure 15: VingCard Essence lock components for ANSI (DA) variant with cylinder

<table>
<thead>
<tr>
<th>Pos</th>
<th>Description</th>
<th>Available as single item</th>
<th>Available as kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Screw Signature M5</td>
<td>X</td>
<td>HW kit Essence/Sig 1000-series</td>
</tr>
<tr>
<td>2</td>
<td>Handle on inside rose Signature</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3, 18</td>
<td>Handle retainer*Signature</td>
<td>X</td>
<td>HW kit Essence/Sig 1000-series</td>
</tr>
<tr>
<td>4</td>
<td>Escutcheon thumbturn Signature</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Screw, M4x5</td>
<td>X</td>
<td>Front end kit, square, for Essence</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td>6</td>
<td>Front for Essence cassette</td>
<td>X</td>
<td>Front end kit, square, for Essence</td>
</tr>
<tr>
<td>7</td>
<td>Screw 4,5 x 22</td>
<td></td>
<td>Front end kit, square, for Essence</td>
</tr>
<tr>
<td>8</td>
<td>Y-Cable Zigbee end node</td>
<td>X</td>
<td>ZigBee end node kit with Signature/Essence cable</td>
</tr>
<tr>
<td>9</td>
<td>In-door electronics cassette for Essence w/LCA 6343</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>LCU ¹) Essence RFID assy (3G)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>LED-plug</td>
<td></td>
<td>RFID symbol kit for Essence</td>
</tr>
<tr>
<td>12</td>
<td>Service plug assembly Essence</td>
<td></td>
<td>RFID symbol kit for Essence</td>
</tr>
<tr>
<td>13</td>
<td>Cylinder rose</td>
<td>X</td>
<td>Cylinder ring kit Signature</td>
</tr>
</tbody>
</table>

¹) LCU = Lock Control Unit
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Spring cylinder rose Signature</td>
<td>X</td>
<td>Cylinder ring kit Signature</td>
</tr>
<tr>
<td>15</td>
<td>Cyl 5-lev Std thread front prof R</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyl 5-lev A ADB thread front prof R</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cyl 5-lev E ADB thread front prof R</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Cylinder sealing assy</td>
<td>X</td>
<td>Cylinder ring kit Signature [finish] XXmm w/seal</td>
</tr>
<tr>
<td>17</td>
<td>Handle on outside rose Signature</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>See 3, 18</td>
<td>X</td>
<td>HW kit Essence/Sig 1000-series</td>
</tr>
<tr>
<td>19</td>
<td>Spindle handle male Signature</td>
<td>X</td>
<td>Square spindle assy Signature 2)</td>
</tr>
<tr>
<td>20</td>
<td>Spindle handle female Signature</td>
<td>X</td>
<td>Square spindle assy Signature 2)</td>
</tr>
<tr>
<td>21</td>
<td>Thumb turn spindle Signature</td>
<td>X</td>
<td>HW kit Essence/Sig 1000-series</td>
</tr>
<tr>
<td>22</td>
<td>Spindle locking clip</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Lock case ANSI DA</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock case ANSI DA ADB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock case ANSI DB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock case ANSI DB ADB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock case EURO</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock case EURO ADB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Screw wood, countersunk 5X25 mm</td>
<td>X</td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td>25</td>
<td>Lock front ANSI</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lock front ANSI ADB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Screw, M4x5</td>
<td>X</td>
<td>• Front end kit, square, for Essence cassette</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td>27</td>
<td>Screw 5,00x12 st 4,8 Zinc color</td>
<td></td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td></td>
<td>Screw 5,00x12 st 4,8 Yellow color</td>
<td></td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td></td>
<td>Screw, wood, countersunk, 5x25mm,</td>
<td></td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td></td>
<td>Metal zinc color</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Screw, wood, countersunk, 5x25mm,</td>
<td></td>
<td>Screw kit for ANSI lock case, brass &amp; chrome</td>
</tr>
<tr>
<td></td>
<td>Metal yellow color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Striker plate ANSI</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Striker plate ANSI ADB</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Striker plate EURO</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

1) LCU 6333 or 6334

2) ‘Square spindle assy Signature’ is sold as a separate kit, but is also included in 'HW kit Essence/Sig 1000-series'.

Table 7
Figure 16: VingCard Essence lockset components for ANSI (DB) variant with cylinder

Figure 17: VingCard Essence lockset components for EURO variant with cylinder
4.4 Parts included for a complete lock

Note: For names of the parts, see Table 7.

Note: The online kit (complete name ZigBee end node kit with Signature/Essence cable) is purchased separately, when applicable. It is also possible to purchase only the Y-Cable Zigbee end node as a separate spare part.

4.4.1 ANSI specific parts

The below parts are specific for ANSI (DA) and ANSI (DB); the striker plate is however turned the other way for ANSI (DB):

Note: The online kit (complete name ZigBee end node kit with Signature/Essence cable) is purchased separately, when applicable. It is also possible to purchase only the Y-Cable Zigbee end node as a separate spare part.
4.4.1.1 ANSI (DA) specific part
The lock case is the only part that is specific for ANSI (DA).

![Figure 20: Lock case ANSI (DA)](image)

4.4.1.2 ANSI (DB) specific part
The lock case is the only part that is specific for ANSI (DB).

![Figure 21: Lock case ANSI (DB)](image)

4.4.2 EURO specific parts
The below parts are specific for EURO.

![Figure 22: From the left](image)
- front cover rounded
- striker plate EURO 5994 steel
- cylinder set screw for cylinders ex threaded ANSI ADB
- lock case EURO
4.5 Installation

Note: For information about online related parts of the installations, see Appendix D.
Note: The position numbers in bold refer to the exploded view in section 4.3.

1. Position the cables into the door before inserting the lock case (23). The connector on the cable must be bent before being threaded into the hole through the door. Important: Do not lubricate the lock case.
2. Position the lock case into the edge of the door and fasten it with two screws wood, countersunk 5X25 mm (24). If applicable, do not forget to install the cylinder fastening clip before inserting the lock case.

Figure 23: Installing the lock case

3. Before inserting the spindle handle female Signature (20) and the spindle handle male Signature (19) into the lock case, check that the spindle threads are lubricated with grease.
4. Screw the spindle handle female Signature onto the spindle handle male Signature and then reverse it (3/4 turn).
5. Insert the spindle handles into the lock case from the outside of the door so that the hole that goes through the spindle handle is visible on the inside (room side) of the door. The spindle handle marked 'EXT' must be on the outside of the door.

Figure 24: Installing the spindle handles
6. Thread the spindle locking clip (22) onto the spindle handle female Signature (20; on the inside of the door) by squeezing hard on the spindle locking clip. Make sure that the clip clicks onto the hole in the spindle handle.

7. At delivery, the handle retainers*Signature (3 and 18) are not mounted into the handle on inside rose Signature (2) and handle on outside rose Signature (17), and they must be prepared according to the door handing. If the handle on inside rose Signature is a left handle (i.e., pointing to the left), the white retainer should be mounted on the inside handle. If the handle on inside rose Signature is a right handle, the black retainer should be mounted on the inside handle. **Important:** For both left handles and right handles, make sure that the handle retainer*Signature is in the "click" position within the groove on the shank of the handle.

8. Insert the handle on outside rose Signature (no holes in the handle on inside rose Signature, 2) onto the spindle handle. **Important:** The screws Signature M5 (1, screws for the door handle roses) must always be installed from the inside of the door.
9. Insert the thumb turn spindle Signature (21) into the lock case from the inside. The marked end on the spindle handle must be inserted into the thumb turn knob. **Important:** For ANSI (DB) and EURO, the thumb turn knob should be pointing downwards. Insert the inside handle onto the spindle handle and screw the handles together. **Important:** For ANSI (DA), the thumb turn knob should be pointing upwards. Insert the inside handle onto the spindle handle and screw the handles together.

10. Insert the inside handle including the handle retainer Signature (3) onto the spindle handle. Fasten the handles together using screws Signature M5 (1).

11. If cylinder is used:
   - Thread the spring cylinder rose Signature (14) onto the cylinder (15; see full names of the cylinder variants [here](#)) from the cylinder-arm side.
   - Insert the cylinder into the cylinder rose.
   - Use a key and screw the cylinder into the lock case.
   - Tighten the cylinder until the cylinder rose is tight to the door.
   - Fix the cylinder into the lock case.
   - The keyhole should always point towards the handle.

12. There are two ways for installing the cylinder fastening screw:
   - The normal way; insert the 2mm Allen key into the screw, and insert the screw in the hole facing towards the lock front. Tighten the cylinder in the lock case as illustrated in Figure 30.
Figure 29: Installing the cylinder with Allen key

Figure 30: Installing the cylinder with fixing-screw tool kit

- A more secure way; fix the cylinder in place by using the fixing-screw tool kit. Use the L-shaped Allen key to lock the headless fixing screw (cylinder screw is turned upside down) to the T-shaped tool as illustrated in Figure 30. Using the T-tool, screw the fixing screw in place as shown earlier to fix the cylinder in place. Make sure that the cylinder fixing screw is tightened in the cylinder. Release the T-tool from the fixing screw by holding the T-tool rigid while turning the Allen key counter-clockwise until the Allen key is released from the screw; then unscrew the T-tool.

See ANSI (DA) and EURO on next page
13. After installation of the cylinder, fix for ANSI (DA) and ANSI (DB) the lock front to the lock case after installation of the cylinder.
14. Assemble the in-door electronics cassette for Essence w/LCA 6343 (9) before installation.
15. Insert 3AA batteries in the battery holder 4.5V; insert the battery holder 4.5V into the in-door electronics cassette for Essence w/LCA 6343.
16. Turn the LCU Essence RFID Assy (3G) (10) according to the door handing; the LCU service contact must face the outside of the door. Hook the LCU Essence RFID Assy (3G) onto the in-door electronics cassette for Essence w/LCA 6343.

17. Connect the cable from the LCU Essence RFID Assy (3G) into the 7-pin connector at the LCA.
18. Insert the in-door electronics cassette for Essence w/LCA 6343 (9) into the door.

19. Connect the cable from the lock case to the in-door electronics cassette for Essence w/LCA 6343.

20. After installation, fix the front for Essence cassette (6; for EURO front cover rounded) of the in-door electronics cassette for Essence w/LCA 6343.

21. Insert the LED-plug (11) into the door.

22. Insert the service plug assembly Essence (12) into the Ø20mm hole without pressing the black expansion ring down to the end stop of the service plug assembly Essence.

Important: The expansion ring shall be delivered in the position shown in Figure 34, i.e. just entering the snap hooks on the service plug assembly Essence.

23. When the service plug assembly Essence has been inserted according to Figure 35, it can rotate freely to find the correct position. When pressing the service plug assembly Essence all the way down, it snaps together with the expansion ring and the two parts together expand in the hole.
24. Install the striker plate (28) into the mortised position in the frame and tighten the striker plate with two striker plate screws (27; see different screw variants here).

**Important:** The depth in the frame must be sufficient (minimum 25.4mm/1”) for throwing the deadbolt.

25. Make a full test of the lock:
- The lock fronts should be flush with the door edge.
- The handles must return to horizontal position after being depressed.
- The *escutcheon thumbturn Signature* (4), and mechanical emergency key if cylinder is present, must throw and retract the deadbolt freely.
- When the door is locked and the deadbolt is thrown, depress the inside handle. The deadbolt and latch must be retracted.
- Make sure that the latch and deadbolt move freely into the striker plate. Also see chapter 5 for more details about the full test of the lock.

**Important:** Do not close the door before the lock has been tested. This warning is even more important if the lock is without cylinder.

26. If cylinder sealing assy (16) is used, the installation of this should be the last operation in the mounting of the lock.

### 4.5.1 To access the service jack

When access to the service jack is needed, twist by hand the *service plug assembly Essence* counterclockwise and simultaneously pull to get the service plug assembly out of the Ø20mm hole. The *service plug assembly Essence* will then split and is ready to be installed (see details here) when the service is finished.
5. To check the installation

A quick check of the installation and operation is important in order to discover any problems related to the installation or the lock itself.

5.1 Checklist for installation and cut-out

5.1.1 Lock mortise
The lock front should be flush with the door edge.

5.1.2 Cylinder
The cylinder should be flush with the cylinder rose and properly fixed.

5.1.3 Roses/door handles
All should be aligned vertically, horizontally and firmly tightened. Make sure there are no gaps between the door surface and the lock installation.

5.1.4 Striker plate
The depth in the frame must be sufficient for throwing the deadbolt with small clearance (min. clearance 26.4 mm; 1.04") and releasing the latch (min. clearance 20 mm; 0.79").
5.2 Operational check

5.2.1 Outside and inside handle
Handles must return to a horizontal position after being depressed and slowly released. The handle on outside rose Signature (see pos 17 in Figure 15) can only be depressed when the lock is in an unlocked position; use for VingCard Vision a construction keycard to unlock the door for 6 seconds.

5.2.2 Latch
The latch must release freely into the striker plate. When the latch is released into the striker plate there should be minimal door movement.

5.2.3 Thumbturn
The escutcheon thumbturn Signature (pos 4 in Figure 16) must throw and retract the deadbolt freely, also when thrown into the striker plate.

5.2.4 Cylinder
When using an emergency key (mechanical), the latch and the deadbolt must throw and retract freely.

5.2.5 Latch, auxiliary latch and deadbolt
When the deadbolt has been retracted by the escutcheon thumbturn Signature (pos 4 in Figure 16) - or the handle on inside rose Signature (pos 2 in Figure 16) - and the handle on inside rose Signature is fully depressed, the latch, auxiliary latch and deadbolt should be flush with the lock front.
5.3 Security function check

5.3.1 Auxiliary latch function
When depressing the auxiliary latch, the latch should be blocked. Make sure the latch is not snagged by the striker plate when the door is closed. According to the ANSI standard, the latch shall be blocked when depressing the auxiliary latch 0-9.5 mm (0-0.37”) measured from lock front. For EURO locks, the requirement is 0-3 mm (0-0.118”); the actual dimension is typically 0-6 mm (0-0.236”).

5.3.2 Panic release function
When the door is closed and the deadbolt is thrown, depress the inside handle. The deadbolt and the latch must be retracted.

5.4 Electronic check
Always check that the electronics works before closing the door. The easiest way to check this for *VingCard Vision* is to use a construction key card; the lock should unlock for 6 seconds.

To check the privacy function you need to have a card without deadbolt override:
- *for Visionline*: use a staff card issued when the Visionline system setup has been performed.
- *for VingCard Vision*: use a keycard without deadbolt override, issued when the system setup has been performed. The construction cards do have deadbolt override, so they are no good for this test.

If the deadbolt is thrown, you should get
- *for Visionline*: three very short yellow flashes.
- *for Vingcard Vision*: one yellow flash if the construction card is used.

The outside door handle should still be blocked. If the deadbolt is not thrown, you should for Visionline get a green light. The outside door handle can easily be depressed.
6. Maintenance
For a reliable operation of the lock, a certain level of maintenance is required.

6.1 Lubrication
All parts that need lubrication are already lubricated by ASSA ABLOY Hospitality. No parts should therefore need any further lubrication.

Caution: The use of lubricants containing solvents or graphite will void the warranty on the lock.

6.2 Loose screws and functional test
Check for loose screws, especially the door handle fastening screws, at scheduled times. Also, perform a functional test (see chapter 5) at scheduled times; at least once per year is recommended.

6.3 To replace the batteries
The LCU Essence RFID Assy (3G) (pos 10 in Figure 16) checks the battery voltage when a staff card (Visionline)/employee card (VingCard Vision) is used. The check is performed when the lock motor is activated. If the battery voltage is below the acceptable, the LCU Essence RFID Assy (3G) signals with

- for Visionline: four short yellow flashes. The door will still unlock as long as the battery voltage is high enough to operate the lock motor; this gives a green flash. If there is no green flash at the end, the battery voltage is below next critical level and will not operate the lock motor.
- for VingCard Vision: three yellow flashes. The door will still unlock as long as the battery voltage is high enough to operate the lock motor. If the battery level is below next critical level so it cannot operate the lock motor, there will be three red flashes and one green flash.

Important: Battery check and/or replacement should be performed at scheduled intervals.

Important: For Visionline, it is recommended to always make a read-out of the time in the lock after a battery exchange to make sure that it is correct. Use a service cable and a service PC with the software Lock Service 3G; see Quick reference guide Lock Service 3G for details. If the time is not correct, a soft reset has occurred; see details on how to proceed in step 9 below.
To replace the batteries:

1. **Important:** Make sure to have fresh batteries ready since the battery holder 4.5V with new batteries must be connected as quickly as possible after the old batteries have been disconnected, else a soft reset may take place. Do not insert any card during the battery exchange. If other batteries than those provided by ASSA ABLOY Hospitality are used, make sure that they are alkaline or long life batteries.
2. Remove the front end by loosening the two screws.
3. Loosen the battery cable carefully.
4. Drag out the battery holder 4.5V.
5. Exchange the batteries in the battery holder 4.5V with fresh ones. **Important:** The old batteries should be treated in accordance with local regulations regarding recycling.
6. Reinstall the battery holder 4.5V.
7. Fasten the battery cable carefully. **Important for Visionline:** If a short green flash is seen when the battery is connected, a soft reset has been done since the lock has been without power too long. Be observant on the green flash; it can be hard to see due to surrounding light. See in step 9 below how to proceed if a soft reset has taken place.
8. Mount the front end with the two screws.
9. **For Visionline:** Make a read-out of the time in the lock with Lock Service 3G to make sure that the time is correct. If it is not, use Lock Service 3G to set the time. If stand open and/or privacy are applicable, these parameters must be set in the lock again; if the Online option is applicable in Visionline, they are sent online, but not instantly. These parameters can also be set with a stand open card and privacy card respectively; see User manual Visionline for details.

### 6.4 To troubleshoot the mechanical operation

If a lock does not work properly when a card is used, you must determine whether the malfunction is due to a card error or to a mechanical error. Many mechanical malfunctions can be detected by a visual inspection. If a lock cannot be operated when a card is used – even though the reader displays a green LED – or if the lock is difficult to operate, check the items stated in the following sections.

#### 6.4.1 Latch retraction

Depress the latch with your thumb. If it does not depress easily, either the lock case is in binding lock case components are malfunctioning. Remove the lock case from the door and depress the latch. If the latch depresses easily when the lock case is removed from the door, reinstall the lock case carefully testing at each stage of assembly. After installation of a lock, check for full extension of the latch. If the latch does not extend completely, binding between the lock case and the mortise pocket or other lock parts may be interfering with operation.
6.4.2 Handle return
If the handle on outside rose Signature (pos 17 in Figure 16) does not return to a horizontal position after the door has been operated, the handle return spring (which is located inside the handle on outside rose Signature) may be broken or displaced. Remove the door handle roses to check the handle return spring.

If the handle on inside rose Signature (pos 2 in Figure 16) sags, door alignment may be causing binding. In this case, loosen the door handle screws and depress the handle. If the handle returns freely with the screws Signature M5 (pos 1 in Figure 16) loosened, align the lock so that the handle continues to return after the screws are tightened. The handle may also sag because the hub spring, in the lock case, is broken or weak.

6.4.3 Lock operation
If it is difficult to depress the handles, loosen the door handle screws and try again. If the lock is still difficult to operate, loosen the lock case screws. This procedure may help detect binding. Sometimes binding is caused by improperly drilled holes for the door handle screws. Be careful if enlarging the screw holes to reduce the binding. The door handle roses may not cover enlarged screw holes, and the enlarged holes could cause recurring alignment problems.

6.4.4 Thumbturn
The escutcheon thumbturn Signature (pos 4 in Figure 16) should extend and retract the deadbolt easily. Difficulty in turning usually results from poor striker plate alignment. Operate the escutcheon thumbturn Signature with the door open. If the escutcheon thumbturn Signature operates easily with the door open but is difficult to operate with the door closed, the striker plate is not well aligned. Reduce or add door silencing pads to avoid re-positioning the striker plate. Sometimes filing the striker plate slightly can alleviate striker plate binding. Adjusting the striker plate may be a good solution.

Loosening the door handle screws and re-tightening may correct the alignment. However, escutcheon thumbturn Signature difficulty can indicate more serious lock case malfunction. If the deadbolt is difficult to operate, even when the lock case is removed from the door, replace the lock case.

6.4.5 Auxiliary latch
Press and hold the auxiliary latch and then try to press the latch. You should not be able to depress the latch bolt when the auxiliary latch is engaged. If the auxiliary bolt never disengages (the latch bolt cannot be retracted), check for binding. If the mortise pocket is not wide enough, the auxiliary latch cannot move correctly.
6.5 To power open the lock
For the Visionline variant, it is possible to power open the LCU Essence RFID Assy (3G) (pos 10 in Figure 16) with a service cable and a service PC with the Lock Service 3G software; see Quick reference guide Lock Service 3G for detailed information.

6.6 Lock repair and part replacement

6.6.1 To replace the lock case
In order to replace the lock case, refer to the Installation section, but do everything in the reverse order. Everything except the striker plate must be removed from the door.

*Tip:* Use a long set of pliers to remove the spindle locking clip.

6.6.2 To replace an LCU Essence RFID assy (3G) or LCA
To replace an LCU Essence RFID assy (3G) or LCA, see the Installation section.
Appendix A: Part dimensions table for Signature/Essence

Table A1
Appendix B: Site survey form

<table>
<thead>
<tr>
<th>Door #</th>
<th>Dimensions</th>
<th>Door Handling</th>
<th>ANSI</th>
<th>EURO</th>
<th>UHR</th>
<th>RH</th>
<th>MR</th>
<th>LHR</th>
<th>L</th>
<th>RH</th>
<th>LHR</th>
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</tbody>
</table>

*Table B1*
Appendix C: To install ADB

This appendix contains description and drawings needed for an installation or upgrade of
ANSI (DA) ADB lock case
ANSI (DB) ADB lock case
EURO ADB lock case
Appendix C: ANSI (DA) ADB

**ADB striker plate**

When installing or upgrade to ANSI DA ADB lock case, the external striker plate must be installed as shown in Figure C1; dimensions in mm (inches).

![Striker plate and cut-out](image)

**Important:** When installing an ADB lock case, the ADB striker plate with curved lip must always be used (hands of door L and R).

<table>
<thead>
<tr>
<th>Door handing</th>
<th>Striker plate L</th>
<th>Striker plate R</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH (Rx)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>RHR (Ro)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>RH (Lx)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>LHR (Lo)</td>
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<td>X</td>
</tr>
</tbody>
</table>

*Table C1: Striker plates for different door handings*

**All frames (wooden and steel frames)**

1. Install the lock in the door according to the Installation section.
2. Place the ADB striker plate in the frame as shown in Figure C1, 49 mm (1 30/32”) above the bottom of the lock front (30mm + 19mm, i.e. 3/4”+1 3/16”).
Appendix C: ANSI (DA) ADB

Mortise
If the frame is mortised for a standard ANSI striker plate, the frame must be modified as shown in Figure C2.

Figure C2: Remove the hatched area
Appendix C: ANSI (DB) ADB

**ADB striker plate**

When installing or upgrade to ANSI DB ADB lock case, the external striker plate must be installed as shown in Figure C3; dimensions in mm (inches).

![Figure C3: Striker plate and cut-out](image)

*Important:* When installing an ADB lock case, the ADB striker plate with curved lip must always be used (hands of door L and R).

<table>
<thead>
<tr>
<th>Door handing</th>
<th>Striker plate L</th>
<th>Striker plate R</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH (Rx)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>RHR (Ro)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>RH (Lx)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>LHR (Lo)</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

*Table C2: Striker plates for different door handings*

**All frames** *(wooden and steel frames)*

1. Install the lock in the door according to the *Installation* section.
2. Place the ADB striker plate in the frame as shown in Figure C3, 49 mm (1 30/32") below the top of the lock front (30mm + 19mm, i.e. 3/4"+1 3/16").
Appendix C: ANSI (DB) ADB

Mortise
If the frame is mortised for a standard ANSI striker plate, the frame must be modified as shown in Figure C4.

Figure C4: Remove the hatched area
Appendix C: EURO ADB

**ADB lock case**
When installing or upgrade to ANSI DA ADB lock case, the external striker plate must be installed as shown in Figure C5; dimensions in mm.

![Figure C5: EURO ADB lock case](image)

The notes below refer to Figure C5.

**Note 1:** Latch - same function as standard ASSA ABLOY Hospitality EURO lock.
**Note 2:** Auxiliary latch/deadbolt trigger - when the door is closed and the auxiliary latch hits the striker plate/frame, the automatic deadbolt will be thrown and the latch will be blocked. Always install a striker plate before installing the lock case in the door. If the door with lock case is closed without a striker plate, the auxiliary latch will be jammed in the frame cut-out. The dimension from the front of the lock case to the striker plate must not exceed 4mm to obtain automatic deadbolt function.
**Note 3:** Automatic deadbolt - the deadbolt throws automatically when the door is closed.
**Note 4:** Privacy hub - with the thumbturn, the privacy hub can be rotated 45°. When the *escutcheon thumbturn Signature* (pos 4 in Figure 16) is pointing downwards, the privacy function is off. When the *escutcheon thumbturn Signature* is rotated 45°, the privacy function is on. The deadbolt cannot be retracted with the thumbturn.

![Figure C6: Thumb turn position at 'privacy off' and 'privacy on'](image)
Appendix D: Online

Introduction
This appendix contains information about the online variant of Essence. For general information about Essence, see earlier in this manual. There is also an easy 4-page quick reference, covering both online and offline version.

For full online functionality, Essence is used with an ANSI 4-switch lock case. If full online functionality is not needed, Essence can be used with lock cases that are not 4-switch.

A battery holder 4.5V with 3AA batteries is used.

Technical specification

<table>
<thead>
<tr>
<th>Power</th>
<th>4.5V - 3AA batteries</th>
</tr>
</thead>
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<tr>
<td>Reader option</td>
<td>RFID</td>
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<td>Online type</td>
<td>RF</td>
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<tr>
<td>Lock case options (all 4.5V)</td>
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<td>ANSI (DA) with 2 switches</td>
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<td>ANSI (DA) with ADB</td>
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<td>ANSI (DA) with 4 switches</td>
<td>70 (2 3/4&quot;) 25/28/32 (63/64&quot; 1 7/64&quot; 1 17/64&quot;)</td>
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<td>ANSI (DB) with 2 switches</td>
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<td>ANSI (DB) with 4 switches</td>
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<td>System compatibility</td>
<td>Visionline</td>
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</table>

Table D1: Essence technical specification
Appendix D: Online

Exploded view

Figure D1: Exploded view of Essence online lock; ANSI (DA) variant with cylinder

Figure D2: Zigbee end node kit with Signature/Essence cable

Note: The endnode holder is included with the standard offline Essence lock (see section 4.4 for details about parts included in the offline lock), while the ZigBee end node kit with Signature/Essence cable (including endnode cable and endnode) is purchased separately. It is also possible to purchase only the Y-Cable Zigbee end node as a separate spare part.
Appendix D: Online

To install an online lock

1. Assemble the in-door electronics cassette for Essence w/LCA 6343 (pos 9 in Figure 16) before installation.
2. Insert 3AA batteries in the battery holder 4.5V; insert the battery holder 4.5V into the in-door electronics cassette for Essence w/LCA 6343.
3. Turn the LCU Essence RFID Assy (3G) (pos 10 in Figure 16) according to the door handing; the LCU service contact must face the outside of the door. Hook the LCU onto the in-door electronics cassette for Essence w/LCA 6343.
4. Connect the Y-Cable Zigbee end node (pos 8 in section 4.3) to the endnode and the LCU Essence RFID Assy (3G), and also connect the 7-pin connector to the LCA.
5. Hook the endnode with cover onto the in-door electronics cassette for Essence w/LCA 6343.
6. Check the installation according to chapter 5.

Battery maintenance
The procedure to replace batteries is the same for online locks as for offline locks; see section 6.3.
Appendix E: Firmware change in LCU 6333

If a lock has LCU 6333 (see green label on the LCU), it contains VingCard Vision lock firmware at delivery. If instead Visionline is applicable, the firmware must be upgraded to Visionline lock firmware; follow the steps below. For detailed information about Lock Service 3G, see Quick reference guide Lock Service 3G.

1. Choose **Upload firmware** in the Lock Service 3G software\(^1\).
2. Connect the service cable to the lock; after a few seconds, the lock LED will be green. Step 4 below must be performed directly after this.
3. At **Upload firmware** in Lock Service 3G, mark the applicable lock firmware and click **Upload** within 4 seconds\(^2\) after the green lock LED was lit in step 3. A progress bar will show how the upgrade proceeds.
4. When the upgrade is complete, a message will be shown.

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1) Always make sure that the lock firmware which is already included in Lock Service 3G is the latest version. If it is not, see the appendix about firmware upgrade in Setup manual Visionline for information on how to prepare for lock firmware upgrade, then choose **Download firmware** in Lock Service 3G to download the firmware from the Visionline server to Lock Service 3G. It is also possible to browse to the firmware file directly from the **Upload firmware** dialog, but it is recommended to go via Visionline.

2) If **Upload** is not clicked within 4 seconds, there will be a timeout and the service cable must be disconnected and then connected again.
Appendix F: Summary of notes

Below is a summary of the important notes etc in this manual. It therefore gives a condensed overview of what to think of in different phases for the Essence lock, such as site survey and lock installation. Some tips appear in more than one manual section; they are then only mentioned once in this appendix. Some tips have been slightly rewritten to be understandable outside their original context.

1. Introduction

**Important:** LCU 6334 (lock controller unit) contains Visionline lock firmware at delivery. If instead VingCard Vision is applicable, a Fail Safe Programming card encoded in VingCard Vision must be presented to the lock before first initialization. The swap is performed by reading VingCard Vision firmware from the EEPROM and then overwriting Visionline firmware in the LCU. For LCU 6333, see Appendix E.

**Note:** If online is applicable, Visionline must be used.

**Note:** This document gives some basic information about cylinder installation, but for details about recoding cylinders etc, see the document Classic/Signature/Essence cylinder option.

**Important:** Essence can only be installed in non-metallic doors.

**Important:** It is recommended to have maximum 7mm (17/64’’) from the outer door blade to the front plate; always discuss and make an individual test together with the door manufacturer to check the reading performance.

2. Site survey

**Important:** The hole for the cylinder is optional and is only to be cut out for locks equipped with cylinders and only from the outside of the door to the center of the lock case; i.e., not through the entire door.

**Important:** If you are going to install the security cylinder Hydra, remember to make space for the cylinder fastening clip when making the cut-out for the lock case; see the document Classic/Signature/Essence cylinder option for more details.

3. To mortise the door

**Important:** The lock front can be delivered with a width of 32mm (1.26’’), 28mm (1.102’’) or 25 mm (0.984’’). Make sure that you mortise the door to the correct dimensions for your lock dimensions. Check the dimensions of the lock before you start cutting.

**Caution:** If the cut-out for the deadbolt is less than 25.4 mm (1’’) deep, the deadbolt may not be retracted by use of a metal key in case of an emergency when the door is double locked. (ANSI AUS = 0, ANSI JPN = 21).
Caution: Be aware if there is any door gasket. If so, compensation must be made by adjusting the horizontal positioning of the striker plate.

Important: If the striker plate is not used (example: steel frame), it is important that the distance between the latch (lower) cut-out and the deadbolt cut-out must be 12 mm (0.47”) in order for the auxiliary latch to work.

4. To install the lock

Note: The online kit (complete name ZigBee end node kit with Signature/Essence cable) is purchased separately, when applicable. It is also possible to purchase only the Y-Cable Zigbee end node as a separate spare part.

Important: Do not lubricate the lock case.

Important: For both left handles and right handles, make sure that the handle retainer is in the “click” position within the groove on the shank of the handle.

Important: The screws for the door handle roses must always be installed from the inside of the door.

Important: For ANSI (DB) and EURO, the thumbturn knob should be pointing downwards. Insert the inside handle onto the spindle and screw the handles together.

Important: For ANSI (DA), the thumbturn knob should be pointing upwards. Insert the inside handle onto the spindle and screw the handles together.

Important: The depth in the frame must be sufficient (minimum 25.4mm/1”) for throwing the deadbolt.

Important: Do not close the door before the lock has been tested. This warning is even more important if the lock is without cylinder.

6. Maintenance

Caution: The use of lubricants containing solvents or graphite will void the warranty on the lock.

Important: Battery check and/or replacement should be performed at scheduled intervals.

Important: The old batteries shall be treated in accordance with local regulations regarding recycling.

Important: For Visionline, it is recommended to always make a read-out of the time in the lock after a battery exchange to make sure that it is correct. Use a service cable and a service PC with the software Lock Service 3G; see Quick reference guide Lock Service 3G for details. If the time is not correct, a soft reset has occurred.

Important: Make sure to have fresh batteries ready since the battery holder 4.5V with new batteries must be connected as quickly as possible after the old batteries
have been disconnected, else a soft reset may take place. Do not insert any card during the battery exchange. If other batteries than those provided by ASSA ABLOY Hospitality are used, make sure that they are alkaline or long life batteries.

**Important note for Visionline:** If a short green flash is seen when the battery is connected, a soft reset has been done since the lock has been without power too long. Be observant on the green flash; it can be hard to see due to surrounding light. If a soft reset has occurred, the following measures must be taken:
- the time must be reprogrammed into the lock
- if any of the functions stand open (set by card) and/or privacy were used, they must be set in the lock again.

**Tip:** Use a long set of pliers to remove the spindle locking clip.

**Appendix C: To install ADB**

**Important:** When installing an ADB lock case, the ADB striker plate plate with curved lip must always be used (hands of door L and R).

**Note:** Latch - same function as standard ASSA ABLOY Hospitality EURO lock.

**Note:** Auxiliary latch/deadbolt trigger - when the door is closed and the auxiliary latch hits the striker plate/frame, the automatic deadbolt will be thrown and the latch will be blocked. Always install a striker plate before installing the lock case in the door. If the door with lock case is closed without a striker plate, the auxiliary latch will be jammed in the frame cut-out. The dimension from the front of the lock case to the striker plate must not exceed 4mm to obtain automatic deadbolt function.

**Note:** Automatic deadbolt - the deadbolt throws automatically when the door is closed.

**Note:** Privacy hub - with the thumbturn, the privacy hub can be rotated 45°. When the escutcheon thumbturn Signature is pointing downwards, the privacy function is off. When the escutcheon thumbturn Signature is rotated 45°, the privacy function is on. The deadbolt cannot be retracted with the thumbturn.

**Appendix D: Online**

**Note:** The endnode holder is included with the standard offline Essence lock (see section 4.4 for details about parts included in the offline lock), while the ZigBee end node kit with Signature/Essence cable (including endnode cable and endnode) is purchased separately. It is also possible to purchase only the Y-Cable Zigbee end node as a separate spare part.
## Revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Change</th>
<th>By</th>
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<tbody>
<tr>
<td>June 25, 2013</td>
<td>Initial version</td>
<td>KG</td>
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<tr>
<td>October 4, 2013</td>
<td>Added table with names of exploded view parts</td>
<td>KG</td>
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<tr>
<td>December 12, 2013</td>
<td>Updated terminology</td>
<td>KG</td>
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<tr>
<td>November 7, 2014</td>
<td>Updated to match updated expansion ring assembly</td>
<td>KG</td>
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<tr>
<td>July 4, 2016</td>
<td>Added LCU 6334</td>
<td>KG</td>
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<tr>
<td>March 6, 2017</td>
<td>Removed <em>Valli &amp; Valli</em> handle range (this is instead described in marketing material)</td>
<td>KG</td>
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