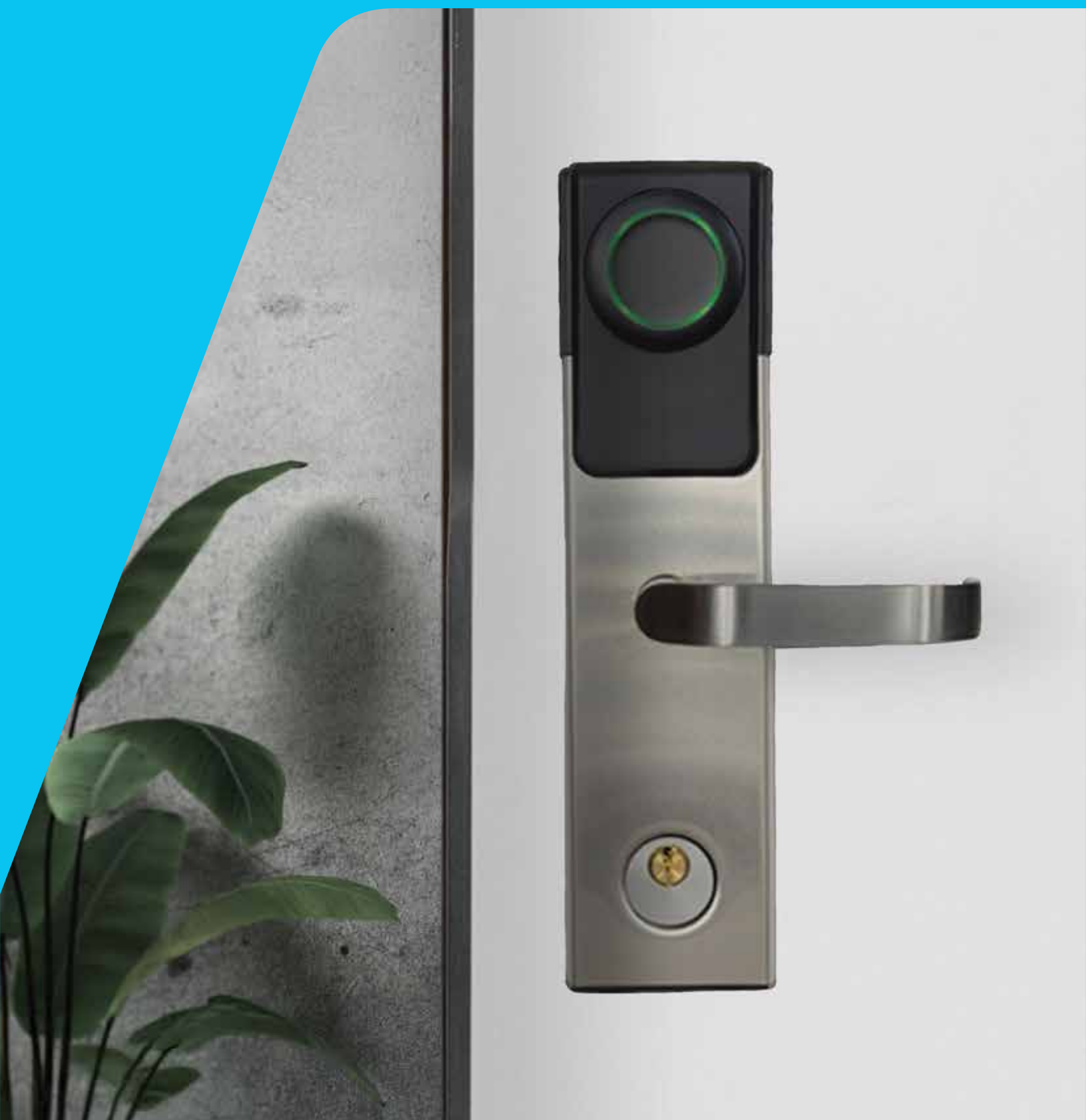


Adorn ID200 Installation Manual

Document: IM-ID200-001

ASSA ABLOY



FCC 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.
2. This device must accept any interference received, including interference that may cause undesired operation.

No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ISED Canada statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Déclarations d'ISDE Canada

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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.
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Exposure information

This equipment complies with ISED Canada and FCC radiation exposure limits set forth for an uncontrolled environment. It should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements d'ISDE Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

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1. Introduction

Adorn ID200 is an electronic lock with RFID (*radio frequency identification*) technology, available for standalone installations. This document describes the installation process of Adorn ID200. All dimensions in this manual (where applicable) are given in mm and inches.

Maintenance and troubleshooting are described in the Adorn user manual UM-ADORN-ID-001. Adorn ID200 is supported by the access control software's TilliT and Visionline, and the service tools TilliT service tool and LockService 3G for Visionline installation.

Make sure to always use the latest version of this document.

1.1 Important precaution before installation

Adorn ID200 is designed to be a replacement for Classic Magstripe using the existing Classic Magstripe cutout in the door. Adorn ID200 can also be a replacement for Classic RFID installations.

The lock case contains several moving parts and mechanisms. To avoid malfunction it is of great importance that no dust, door material residue, oil or other contamination makes its way into the lock case body. Failure to follow this advice may lead to loss of warranty.

1.2 Marine Product Security Centre

We provide security information, e.g. best practices and advisories for our products and services, at [ASSA ABLOY Global Solutions Marine Security Centre](#). In case of any vulnerabilities impacting our products or services, we publish advisories in accordance with our responsible disclosure policy.

2. Preparation for installation

2.1 Necessary tools for installation

The tools shown in Figure 1 are needed for assembly of complete lock.

- Torx T20S screwdriver*
- Cross-head screwdriver (Pozidriv 2 screwdriver)
- Unbrako 2 mm (5/64)"; used to fasten the cylinder fastening screw.
- Torx T10 screwdriver

**Several different names exist for this screwdriver, other names are Torx TR20/T20S/T20H. This screwdriver has a hole in the centre as an extra security, to prevent a straight screwdriver or standard Torx driver from being inserted.*

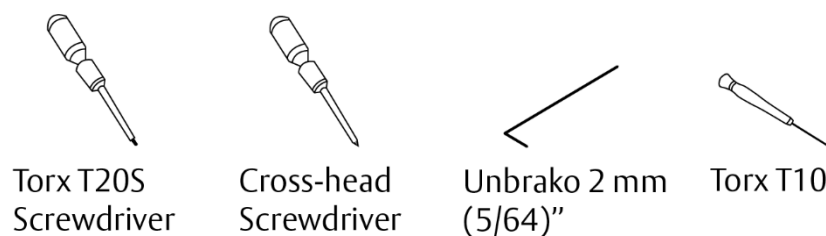


Figure 1: Tools needed for assembly.

2.2 Exploded view

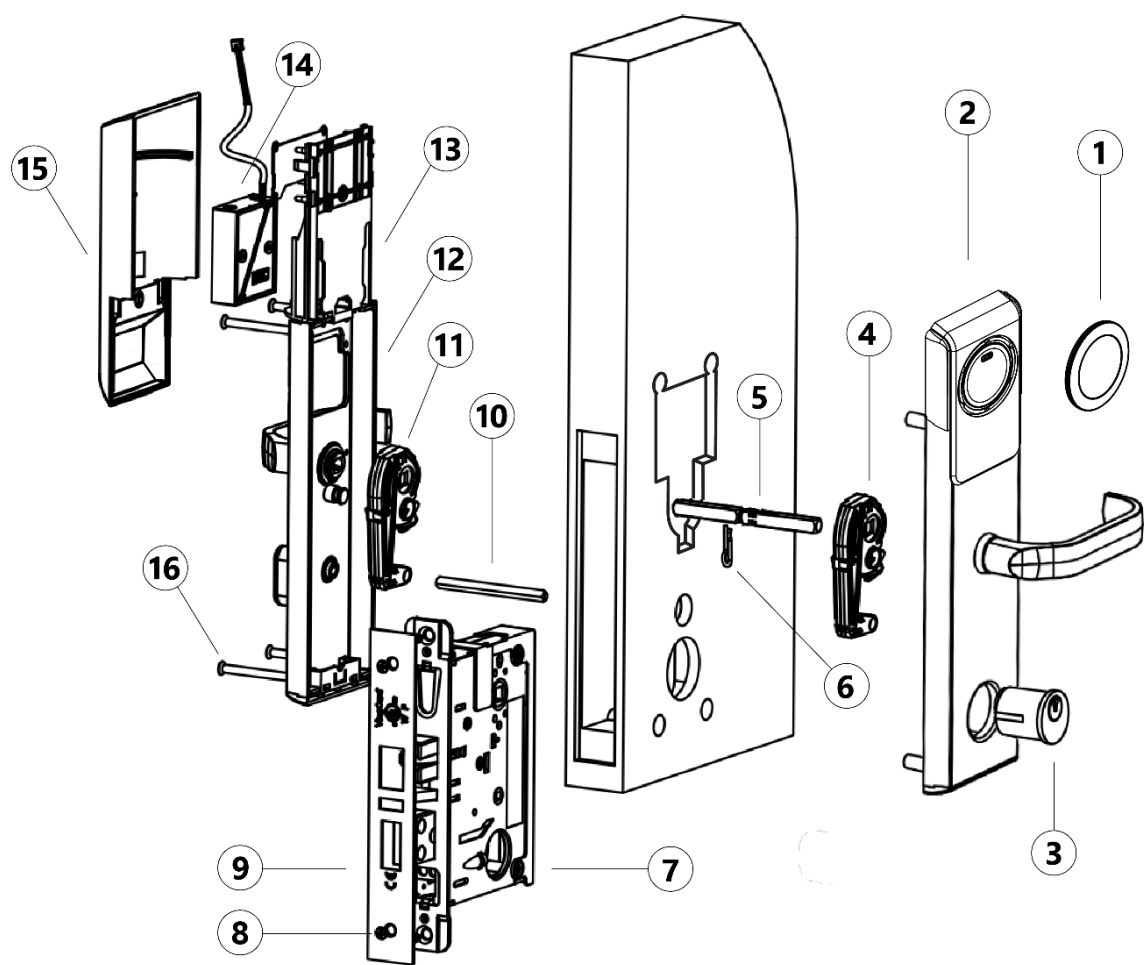


Figure 2: Components for an Adorn ID200 lock.

Table 1: Complete list of parts for a complete Adorn ID200 lock.

Pos	Description	Pos	Description
1	Adorn Cover	9	Lock front
2	Outside escutcheon	10	Thumbturn spindle
3	Cylinder	11	See 4
4	Handle retainer	12	Inside escutcheon
5	Spindle	13	Bracket
6	Safety pin	14	Battery case
7	Lockcase	15	Battery cover
8	Lock front screw	16	Escutcheon screw

2.3 Parts in complete lock

See figure 3 for an overview of the parts included in both EURO and ANSI DB locks. The lockcase, face plate and striker plates vary between EURO and ANSI DB locks.

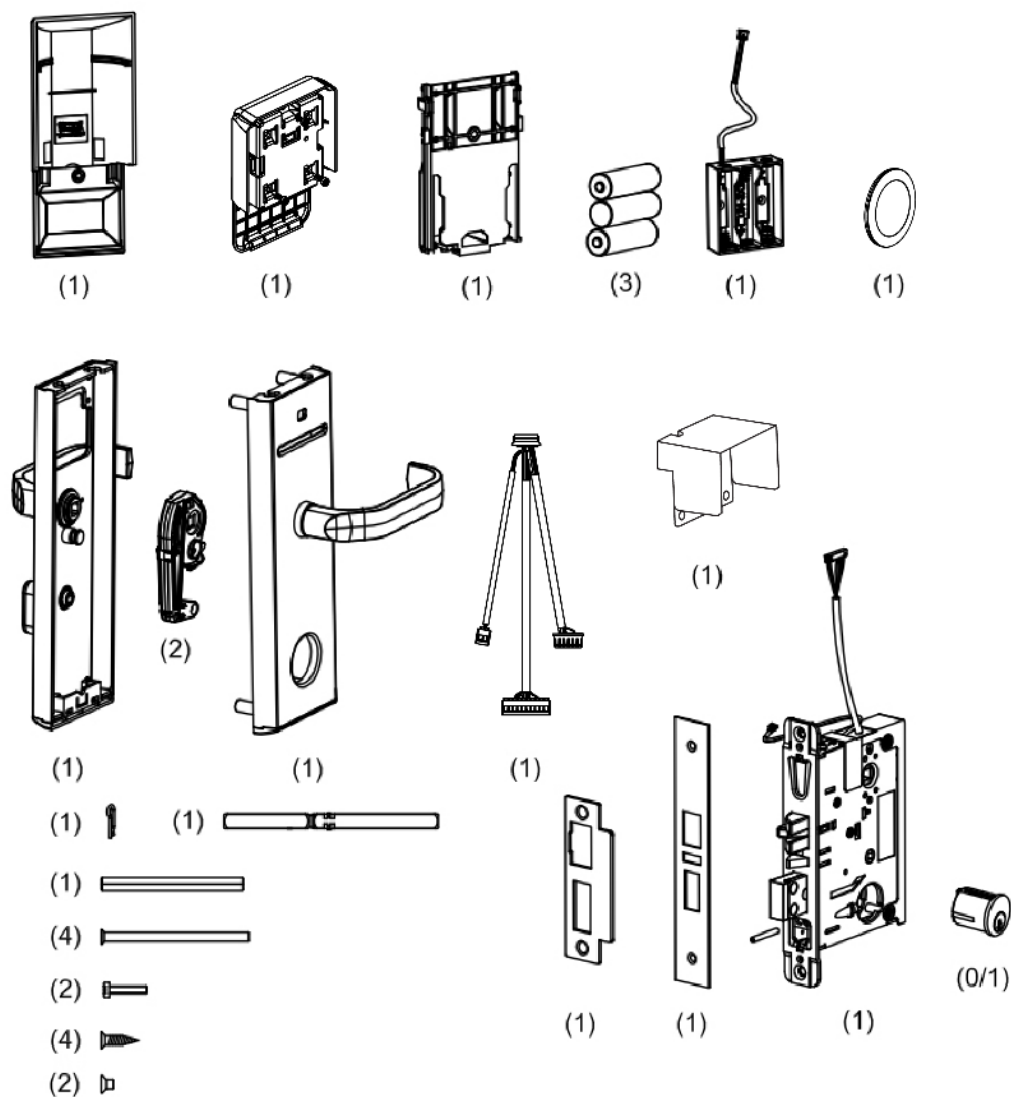


Figure 3: Parts included in a complete Adorn ID200 lock.

2.4 Parts in upgrade kit

The following sections describes the parts included for upgrades from Magstripe 9V, Magstripe 4,5 V and Classic RFID installations where the installed hardware is kept. When a lock is upgraded from a 9 V Magstripe installation, the battery case and cover is replaced with parts for 4,5 V batteries.

2.4.1 MAGSTRIPE 9 V

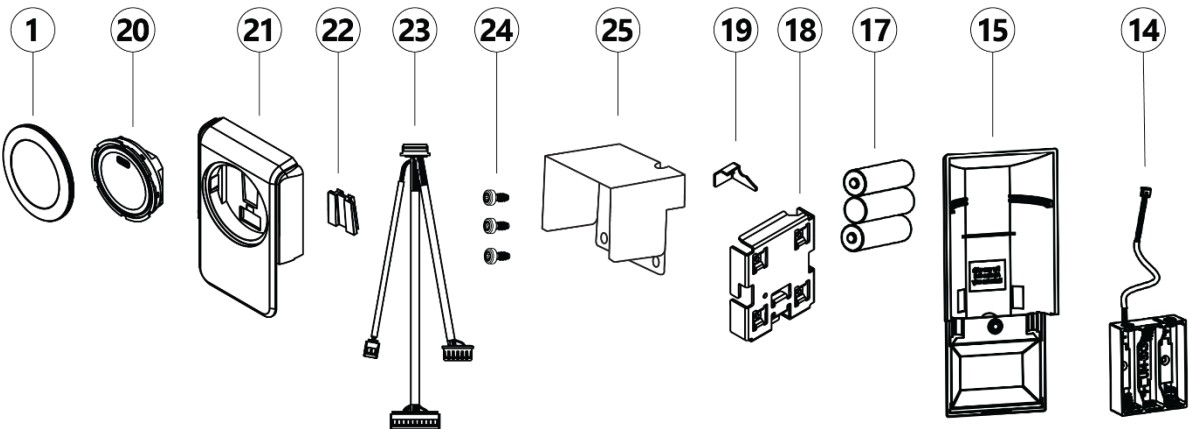


Figure 4: Part included for a magstripe 9V upgrade.

Table 2: List of the parts included for a magstripe 9V upgrade.

Pos	Description	Pos	Description
1	Adorn Cover	20	Adorn
14	Battery case	21	Adorn holder
15	Battery cover	22	Plastic wedge
17	3x AA Batteries	23	Adorn cable
18	Metal bracket	24	3x Torx T10 screws
19	Cable clip	25	Fireshield

2.4.2 MAGSTRIPE 4,5 V

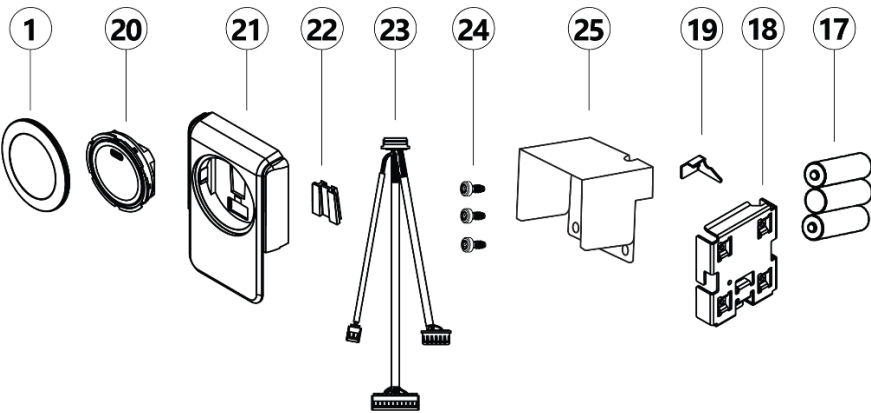


Figure 5: Part included for a magstripe 4,5 V upgrade.

Table 3: List of the parts included for a magstripe 4,5 V upgrade.

Pos	Description	Pos	Description
1	Adorn Cover	21	Adorn holder
17	3x AA Batteries	22	Plastic wedge
18	Metal bracket	23	Adorn cable
19	Cable clip	24	3x Torx T10 screws
20	Adorn	25	Fireshield

2.4.3 CLASSIC RFID

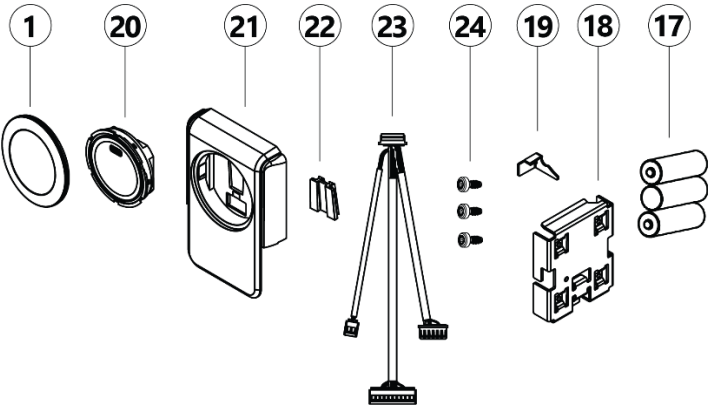


Figure 6: Part included for a Classic RFID upgrade.

Table 4: List of the parts included for a Classic RFID upgrade.

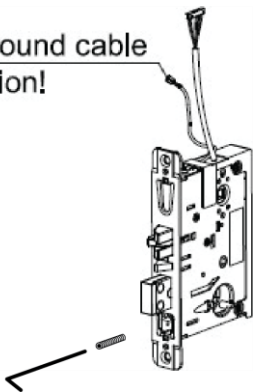
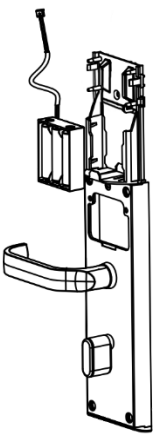
Pos	Description	Pos	Description
1	Adorn Cover	21	Adorn holder
17	3x AA Batteries	22	Plastic wedge
18	Metal bracket	23	Adorn cable
19	Cable clip	24	3x Torx T10 screws
20	Adorn		

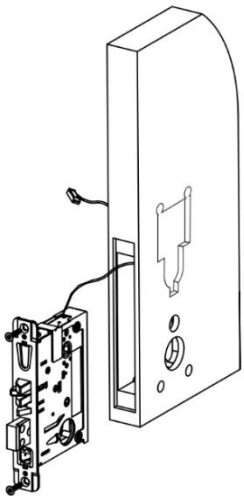
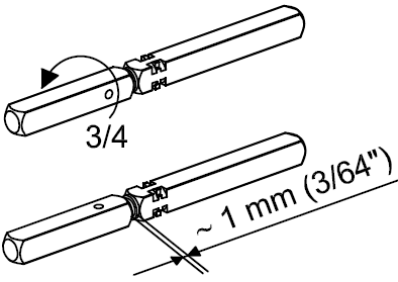
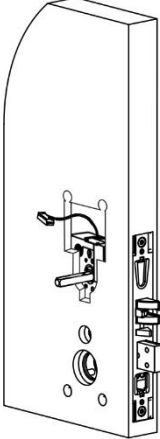
3. Installation instructions

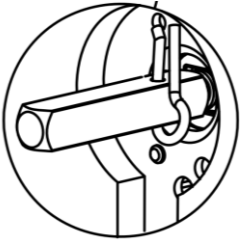
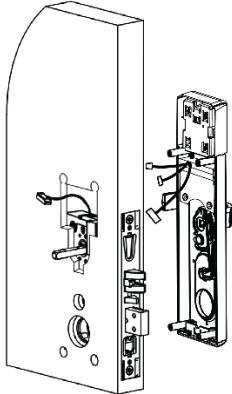
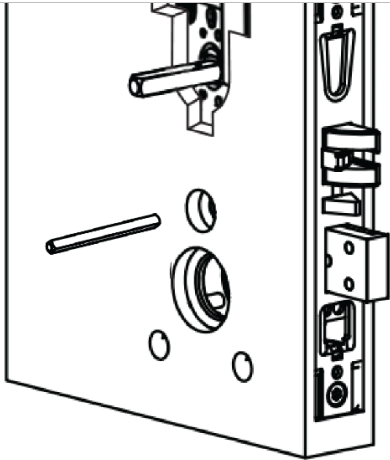
3.1 Adorn ID200 Complete lock installation

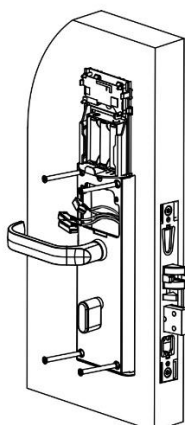
Following steps describes how Adorn ID200 is installed when the complete lock is exchanged. The instructions are based on offline installations. The position numbers in bold refer to the exploded views in section 2. Note that the lock should be installed on doors with a magstripe cutout.

Important: Do not close the door before the lock has been installed and tested.

Remove the ground cable before installation! 	Lock case preparation: 1. Remove the ground cable from the ANSI DB / EURO lock case. 2. Remove metal cover from the cylinder cutout. 3. Mount the cylinder fastening screw by inserting the 2 mm <i>Unbrako</i> into the screw and insert the screw in the hole facing towards the outside of the door. <u>Note:</u> Do not tighten the cylinder fastening screw just yet.
	Inside escutcheon preparations: 4. Mount the three AA batteries in the battery case, and make sure battery case is attached to the inside escutcheon.

	5. Position the cable into the door before inserting the lock case (7), make sure the connector is on the inside side of the door. <u>Important:</u> Do not lubricate the lock case. <u>Important:</u> If installing on a metal door, make sure that the hole where the cable will pass through the door has no metal burrs that can damage the cable. 6. Position the lock case into the edge of the door and fasten it with two screws.
	7. The <i>spindle handle female (5)</i> is at delivery screwed onto the <i>spindle handle male</i> and greased. Make sure that the spindles are reversed 3/4 turn.
	8. Insert the spindles 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. <u>Note:</u> The spindle handle marked 'EXT' must be facing the outside of the door.

	9. Insert the Safety pin (6) into the female spindle. If plastic ring is used, push the plastic ring onto the inside spindle, making sure that the ring fits into its groove.
	10. Position the outside escutcheon onto the spindle. Pull the three cables from Adorn through the door cutout, so the cables can be reached from the inside of the door.
	11. Insert the thumbturn spindle (10) through the lock case until it stops against the outside escutcheon. <u>Important to check:</u> • The outside spindle and inside spindle fit correctly in their positions; make sure that there is a 3/4 turn between them (normally fixed already at delivery). • Inside and outside handle retainers (4 and 11) are correctly mounted according to door handing. • The cable to the battery is placed correctly through the notch on top of the escutcheon. • Leave the connectors accessible on the inside of the door.



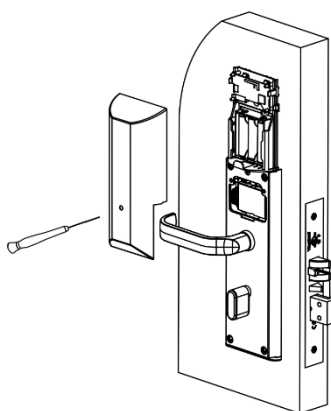
12. Mount the inside escutcheon (**12**) including handle retainer. Make sure to set the thumbturn in its vertical position while the deadbolt is retracted.

Fasten the outside escutcheon (**2**) and inside escutcheon respectively with four escutcheon screws (**16**) as shown, but do not tighten them at this point. The protruding parts must fit correctly. Any bending or misalignment may cause malfunction.

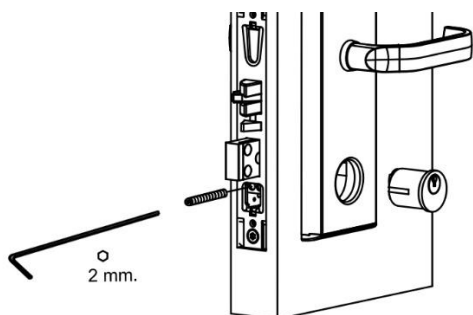
For lock without cylinder, never close door before lock is programmed and working with card operation.

13. Connect the lock case cable from Adorn to the cable from the lockcase.
Connect the battery cable from Adorn with the battery pack.
Green light should flash when the battery cable is connected. Leave the third cable as it is.

Push the cables inside the door cutout.



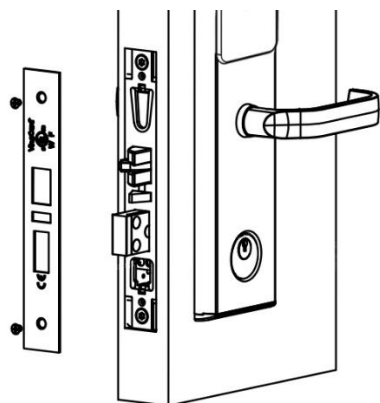
14. Mount the battery cover, fasten it with a Torx T20S screwdriver.



15. Install the cylinder (**3**) by turning it on clockwise and fasten it with the cylinder set screw premounted in the lockcase, using an Allen wrench.

Note: The keyhole should always point towards the handle.

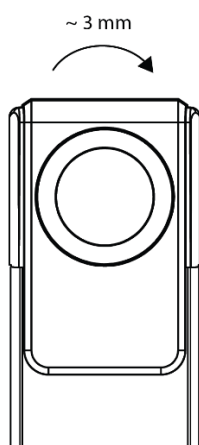
16. Check all functions for smooth operation. Throw the deadbolt with thumbturn and retract the latch and deadbolt by depressing the inside handle. When installing an ADB lock case the deadbolt is thrown by pushing the trigger and retracted by depressing the inside handle.



17. Fix the face plate with two screws (8) and tighten the four escutcheon screws.

Note: Try to push down the handle and turn the deadbolt back and forth to make sure the plate is placed correctly.

18. Upload the firmware (described more thoroughly in respective service tool manual).



19. Put the Adorn cover (1) on the reader and turn it slightly (~3mm) clockwise.

Note: If there is a printed logo, make sure it is placed in the right direction.

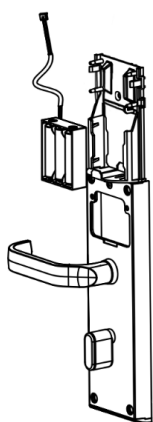
20. Perform a hardware check of the lock; see chapter 4.

3.2 Magstripe upgrade

Following steps describes how to exchange a Magstripe reader to an Adorn ID200 reader.

Preparations:

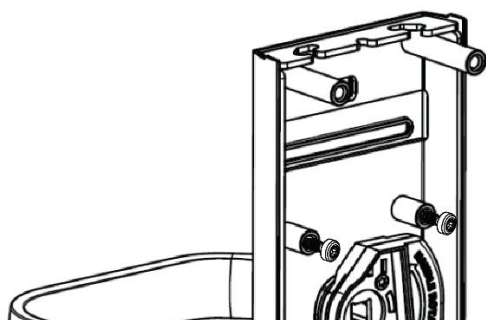
1. Remove both the inside and outside escutcheon from the door.
2. Remove the black plastic edge from the outside escutcheon, and the magstripe reader module.
3. Leave the lockcase, lock front and spindles mounted as they are in the door.



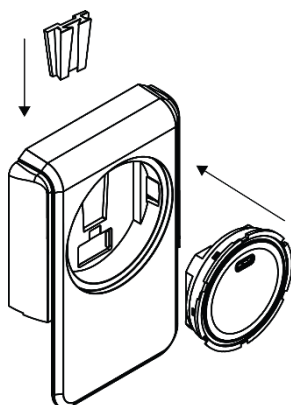
Inside escutcheon:

4. If there are 9V batteries in the current installation, change the battery pack and insert 3 AA batteries in the new battery case. Also, the battery cover needs to be changed to fit the 4,5 V battery case.

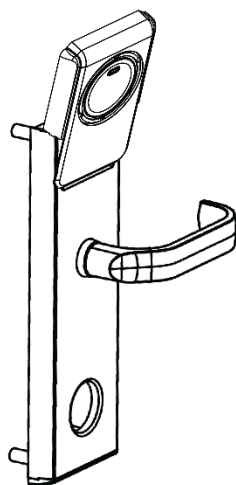
If it is a 4,5 V installation, the battery pack and cover can be kept. However, change the batteries to 3 new AA batteries.



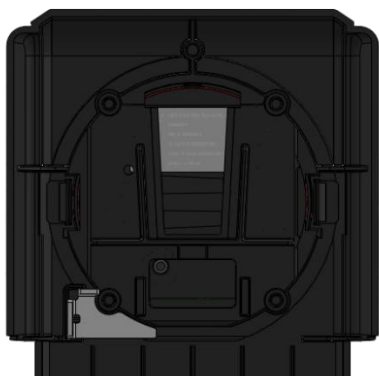
5. Remove the screws that are placed under the mag card cutout with a Torx T20S screwdriver.



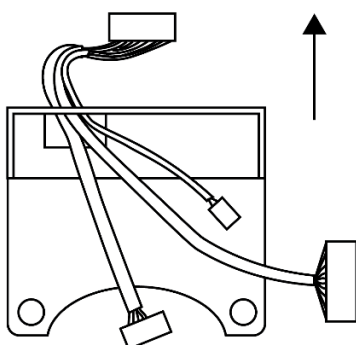
6. Mount the Adorn reader (20) onto the holder (21) from the front and secure it with the small plastic wedge (22) from inside. Adorn should be mounted so that the USB-c connector is directed upwards.



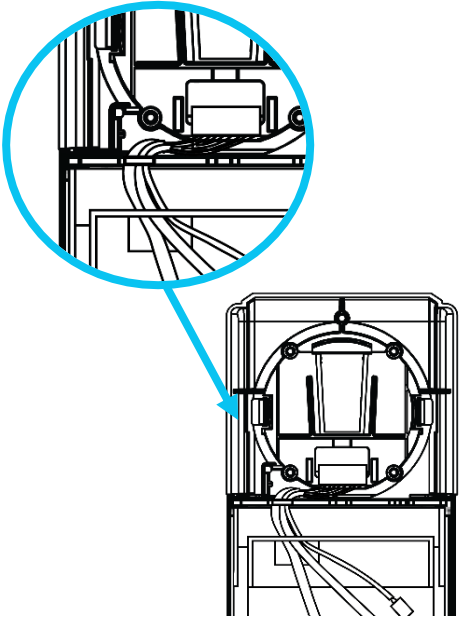
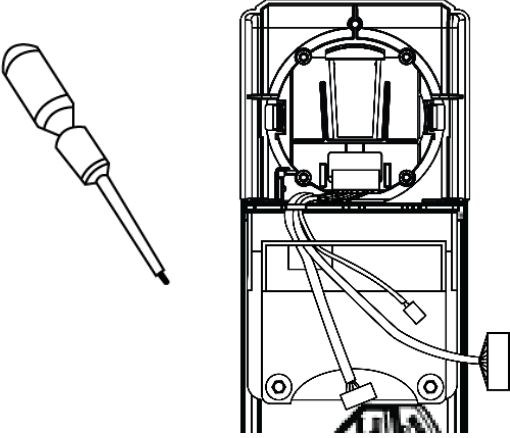
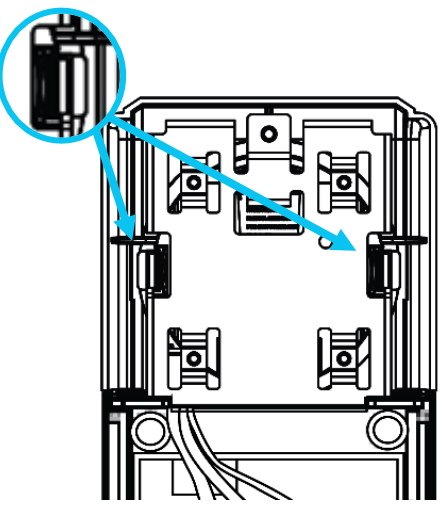
7. Snap the holder onto the outside escutcheon by inserting the plastic edge into the magstripe cutout and pull it to its vertical position.

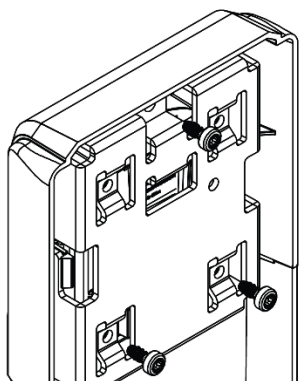


8. Mount the cable clip (**19**) on the left side of the escutcheon onto the edge placed there.

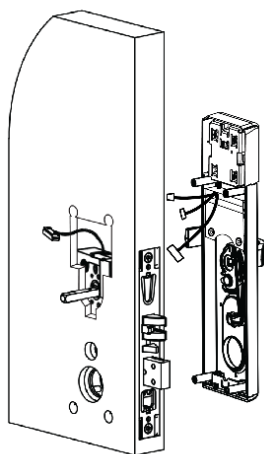


9. Pull the Adorn cable (**23**) through the fire shield (**25**), in the direction shown in the picture.

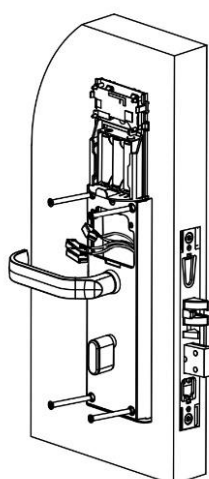
	10. Place the fire shield on the inside of the outside escutcheon. Lead the cables through the cutout on the left, then through the cable clip and connect the connector to Adorn. <u>Important:</u> Make sure the cables are placed in a way that won't damage them, protected by the plastic cover. Leave room for where the screws later will be mounted.
	11. Mount the fire shield with two Torx T20 screws.
	12. Mount the metal bracket (18) in centre of the holder. It should snap on to the two opposite plastic clamps and make a clear snap sound. <u>Important:</u> The metal bracket is what keeps the plastic holder in place. Make sure the plastic holder is aligned with the escutcheon on each side when it has been mounted.



13. Fasten the metal bracket with at least 3 Torx T10 screws, mounted as in the picture.



14. Position the outside escutcheon onto the spindle. Pull the three cables from Adorn through the door cutout, so the cables can be reached from the inside of the door.



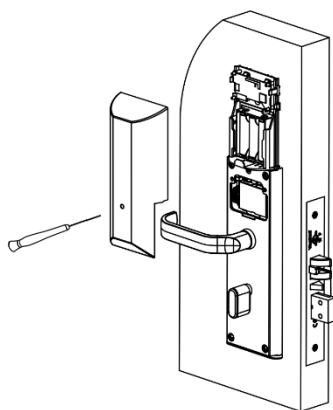
15. Mount the inside escutcheon (**12**) including handle retainer. Make sure to set the thumbturn in its vertical position while the deadbolt is retracted.

Fasten the outside escutcheon (**2**) and inside escutcheon respectively with four escutcheon screws (**16**) as shown, but do not tighten them at this point. The protruding parts must fit correctly. Any bending or misalignment may cause malfunction.

For lock without cylinder, never close door before lock is programmed and
Working with card operation.

16. Connect the lock case cable from Adorn to the cable from the lockcase.
Connect the battery cable from Adorn with the battery pack.
Green light should flash when the battery cable is connected. Leave the third cable as it is.

Push the cables inside the door cutout.

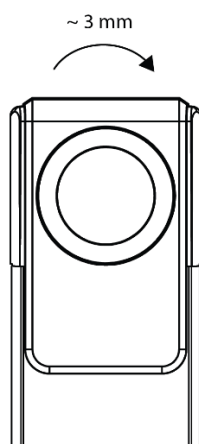


17. Mount the battery cover, fasten it with a Torx T20S screwdriver.

18. Check all functions for smooth operation. Throw the deadbolt with thumbturn and retract the latch and deadbolt by depressing the inside handle. When installing an ADB lock case the deadbolt is thrown by pushing the trigger and retracted by depressing the inside handle.

Tighten the four escutcheon screws.

19. Initiate the lock (described more thoroughly in TilliT service tool manual, or the LockService 3G Manual).



20. Put the Adorn cover (1) on the reader and turn it slightly (~3mm) clockwise.

Note: If there is a printed logo, make sure it is placed in the right direction.

21. Perform a hardware check of the lock; see chapter 4.

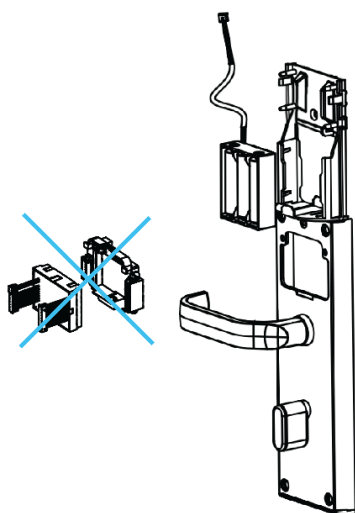
3.3 Classic RFID upgrade

Following steps describes how to exchange a Classic RFID reader to an Adorn ID200 reader.

Note: The Classic RFID Replacement is only applicable for doors with a magstripe cutout.

Preparations:

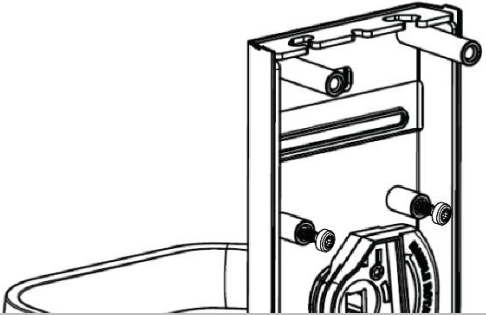
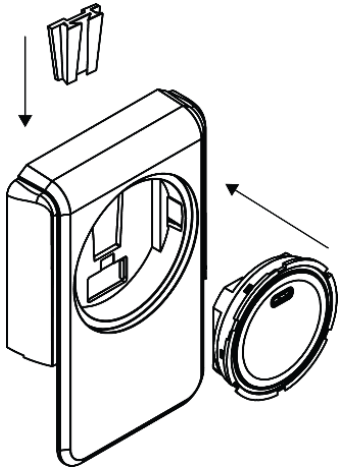
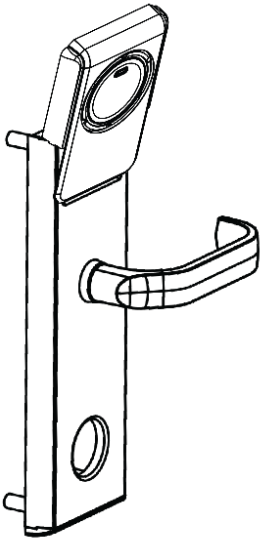
1. Remove both the inside and outside escutcheon from the door.
2. Leave the lockcase, lock front and spindles mounted as they are in the door.

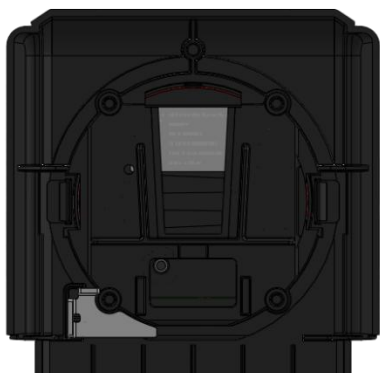


3. Remove the LCA from the inside escutcheon and change the batteries to three new AA batteries.

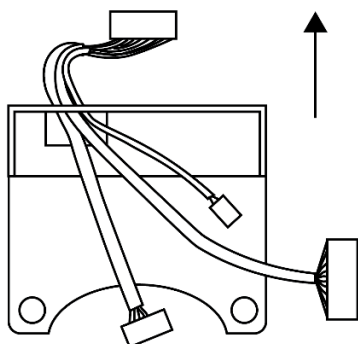


4. Remove the upper part from the outside escutcheon, including the LCU.

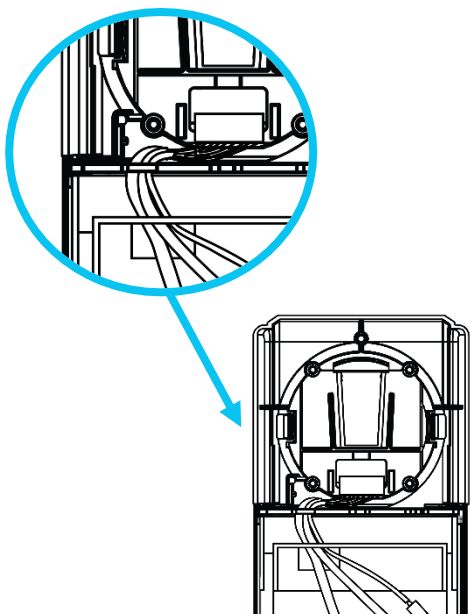
	5. Remove the screws that are placed under the mag card cutout with a Torx T20S screwdriver.
	6. Mount the Adorn reader (20) onto the holder (21) from the front and secure it with the small plastic wedge (22) from inside. Adorn should be mounted so that the USB-c connector is directed upwards.
	7. Snap the holder onto the outside escutcheon by inserting the plastic edge into the magstripe cutout and pull it to its vertical position.



8. Mount the cable clip (19) on the left side of the escutcheon onto the edge placed there.

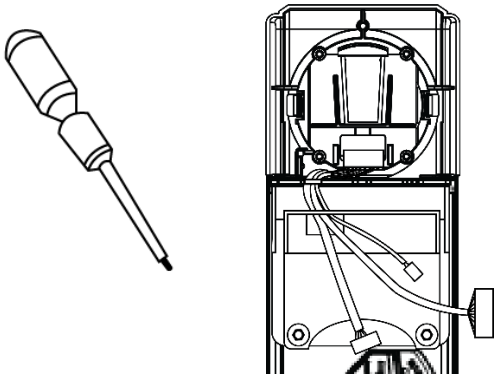
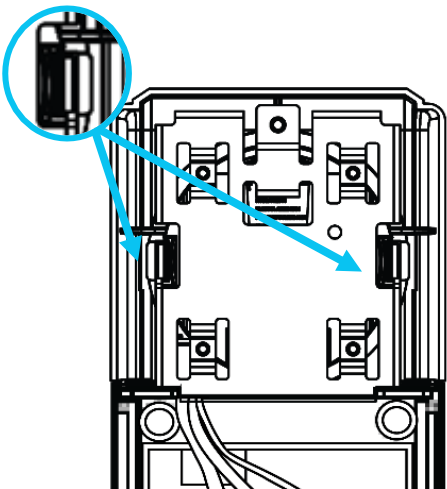
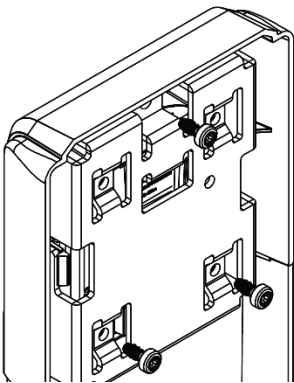


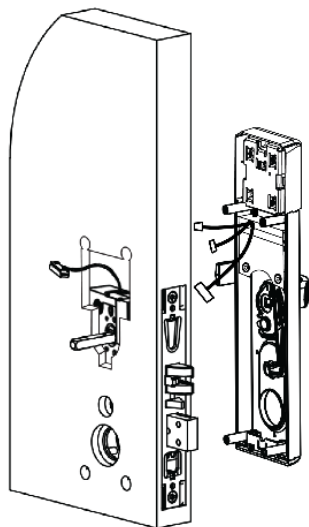
9. Pull the Adorn cable (23) through the fire shield (25), in the direction shown in the picture.



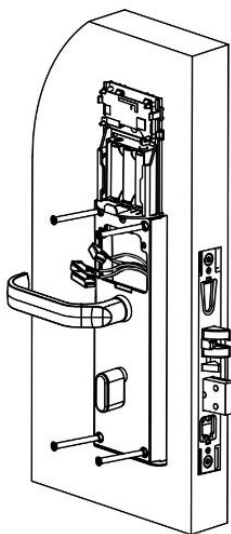
10. Place the fire shield on the inside of the outside escutcheon. Lead the cables through the cutout on the left, then through the cable clip and connect the connector to Adorn.

Important: Make sure the cables are placed in a way that won't damage them, protected by the plastic cover. Leave room for where the screws later will be mounted.

	11. Mount the fire shield with two Torx T20 screws.
	12. Mount the metal bracket (18) in centre of the holder. It should snap on to the two opposite plastic clamps and make a clear snap sound. <i>Important:</i> The metal bracket is what keeps the plastic holder in place. Make sure the plastic holder is aligned with the escutcheon on each side when it has been mounted.
	13. Fasten the metal bracket with at least 3 Torx T10 screws, mounted as in the picture.



14. Position the outside escutcheon onto the spindle. Pull the three cables from Adorn through the door cutout, so the cables can be reached from the inside of the door.



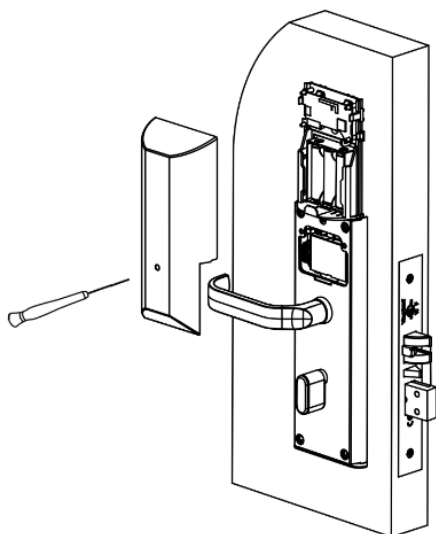
15. Mount the inside escutcheon (12) including handle retainer. Make sure to set the thumbturn in its vertical position while the deadbolt is retracted.

Fasten the outside escutcheon (2) and inside escutcheon respectively with four escutcheon screws (16) as shown, but do not tighten them at this point. The protruding parts must fit correctly. Any bending or misalignment may cause malfunction.

For lock without cylinder, never close door before lock is programmed and working with card operation.

16. Connect the lock case cable from Adorn to the cable from the lockcase.
Connect the battery cable from Adorn with the battery pack.
Green light should flash when the battery cable is connected. Leave the third cable as it is.

Push the cables inside the door cutout.

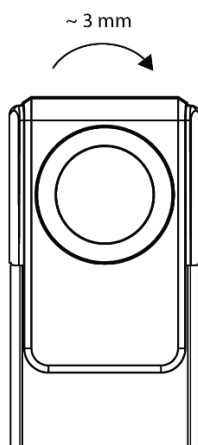


17. Mount the battery cover, fasten it with a Torx T20S screwdriver.

18. Check all functions for smooth operation. Throw the deadbolt with thumbturn and retract the latch and deadbolt by depressing the inside handle. When installing an ADB lock case the deadbolt is thrown by pushing the trigger and retracted by depressing the inside handle.

Tighten the four escutcheon screws.

19. Initiate the lock (described more thoroughly in TilliT service tool manual, or the LockService 3G Manual).



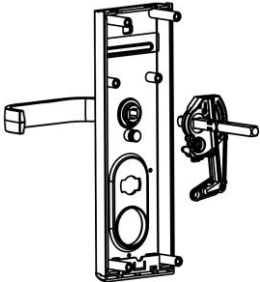
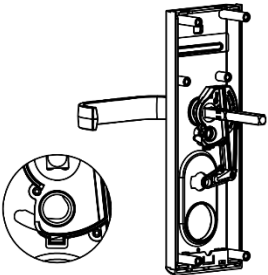
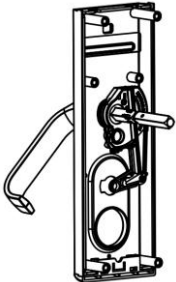
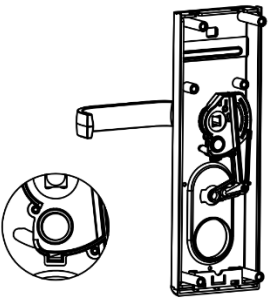
20. Put the Adorn cover (1) on the reader and turn it slightly (~3mm) clockwise.

Note: If there is a printed logo, make sure it is placed in the right direction.

21. Perform a hardware check of the lock; see chapter 4.

3.4 Handle retainer

The handle retainers are normally mounted at delivery, but if they are not (e.g. if they are ordered as a spare parts), follow the steps below:

	1. Assemble the square spindle in the handle retainer.
	2. Assemble the square spindle and the handle retainer as in the picture. Push the handle retainer against end stop. Push the handle retainer against escutcheon until hub stops against metal arm in handle.
	3. Turn the handle down until the hole in the handle retainer is just open. Do not use force on handle against end stop. Push the handle retainer against escutcheon with both thumbs.
	4. When the handle is back in horizontal position, remove the square spindle from the handle and handle retainer. Assemble the second handle retainer in the inside escutcheon with the same method as outside escutcheon.

4. Hardware check

The steps in sections 4.1-4.3 do not require that the locks have been commissioned. The steps in this checklist can be performed with an open door, or when standing on the inside of the door. Avoid closing the doors before commissioning is done. After commissioning the lock, some additional checking steps are needed; see the respective commissioning manual. Alternatively, a complete check of the lock (hardware check and configuration check) can be done after commissioning.

4.1 Installation check

- *Lock mortise*: The front end (including the lock case cover plate) should be flush with the door edge.
- *Cylinder*: The cylinder should be flush with the escutcheon and properly fixed.
- *Escutcheon*: The escutcheon should be aligned vertical to the door edge and be tightened firmly.
- *Strike*: The depth in the frame must be sufficient, min. 25.4 mm/1" (may vary depending on market), to accommodate the full thrown deadbolt.

4.2 Operational check

- *Outside and inside handles*: The handles must return to horizontal position after being depressed (outside handle can only be depressed slightly as the lock is in locked position).
- *Thumbturn*: The thumbturn must throw and retract the deadbolt freely.
Note: When installing ADB lock case, the thumbturn cannot retract the deadbolt. The trigger will throw the deadbolt if it is depressed.
- *Cylinder*: When using an emergency key (EMK), latch and deadbolt must freely operate.
- *Latch and deadbolt*: When the deadbolt has been retracted by the thumbturn and the inside handle is fully depressed, deadbolt and latch should be flush with the lock case cover plate.

4.3 Security function check

- *Dead latch function*: When depressing the locking latch, the latch should be blocked. Make sure the latch is not snagged by the strike when the door is closed.
- *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.
- Make sure that the deadbolt can be fully thrown (no obstacles) when the door is in the frame.

5. Site survey

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

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

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

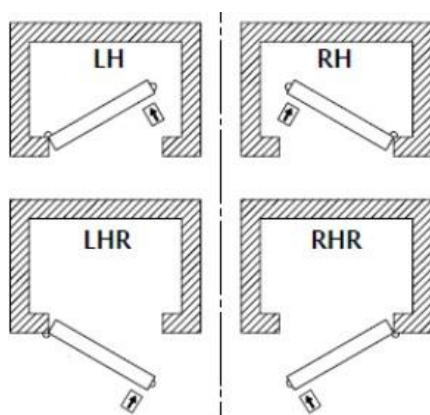
5.1 Site survey checklist

Door dimensions

The A-, B- and C-dimensions are important to know when ordering Adorn ID200 or certain parts for it.

- The A-dimension is the entire door thickness.
- The B-dimension is from the outside door edge to the center of the lock case.
- The C-dimension is from the inside door edge to the center of the lock case.

Door handling



*LH = left hand
RH = right hand
LHR = left hand reverse
RHR = right hand reverse*

Always make sure to have the correct handing on all the doors. The naming in the picture refers to the outside of the door.

Left hand door (LH or LHR):

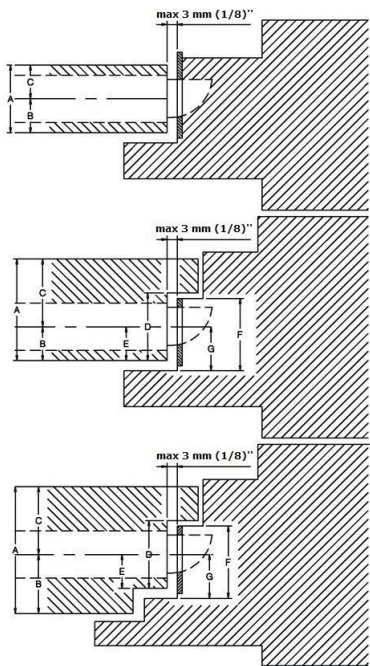
To open the door, the handle is pressed to the left of the rose with the left hand. The door hinges are on your left side.

Right hand door (RH or RHR):

To open the door, the handle is pressed to the right of the rose with the right hand. The door hinges are on your right side.

Dimension requirements 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.	Check the following dimension requirements: 1. The gap between lock front cover and strike 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 strike 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 strike 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.
Check door frames / strike plates	Check if you can use ANSI standard strike plate or if you need to order a customized strike plate.
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".

Rebated doors



A _____
B _____
C _____

A _____
B _____
C _____
D _____
E _____
F _____
G _____

A _____
B _____
C _____
D _____
E _____
F _____
G _____

When it comes to rebated doors and rebated frames, be extra observant regarding protrusion for the deadbolt on the frame side. See examples of rebated doors and door frames.

5.2 Site survey form

[illegible]

6. Version history

Revision	Date	Description	Author
1.0	2025-07	Initial version	SO
1.1	2026-01	Released version	SO

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