

D50S.511.SB
EUROPROFILE HALF CYLINDER
WITH ADJUSTABLE CAM
MOUNTING AND CARE INSTRUCTIONS
USER GUIDE

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1. BEFORE INSTALLATION

1. The instructions should be carefully followed during installation. These instructions and any maintenance instructions should be passed on by the installer to the user.
2. iLOQ D50S cylinders must be installed and used carefully without excessive force.
3. The product should not be modified in any way except in accordance with the modifications described in these instructions.
4. Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly, does not inhibit the correct operations of D50S cylinder.
5. Care should be taken to ensure that no projection of the D50S cylinder and associated parts, can prevent the door swinging freely.
6. All components necessary for the specific installation should be fitted in order to ensure compliance with EN15684 standard.
7. The cylinder must project less than 1 mm on outside of the door to ensure proper operation.
8. No liability is accepted for damage to the doors or components due to incorrect installation.
9. D50S.511 cylinder is only available in one length with 30/10 mm, don't use extension with the cylinder.
10. This type of cylinder is developed for the use inside key switches and key tube adapters (see compatibility chapter) which are prepared for DIN half cylinder with a length of 30-10 mm. Do not use the cylinder for other purposes resp. use cases.
11. The cylinder has an operating angle of +/- 90° around the neutral position, do not try to overturn the cam.
12. The integrated cam is spring supported, please use with care.
13. We reserve the right to make modifications or further technical developments without further notice.
14. If there are any deviations from the contents in foreign language versions of the documentation, the English original shall apply in case of doubt.

2. AFTER INSTALLATION

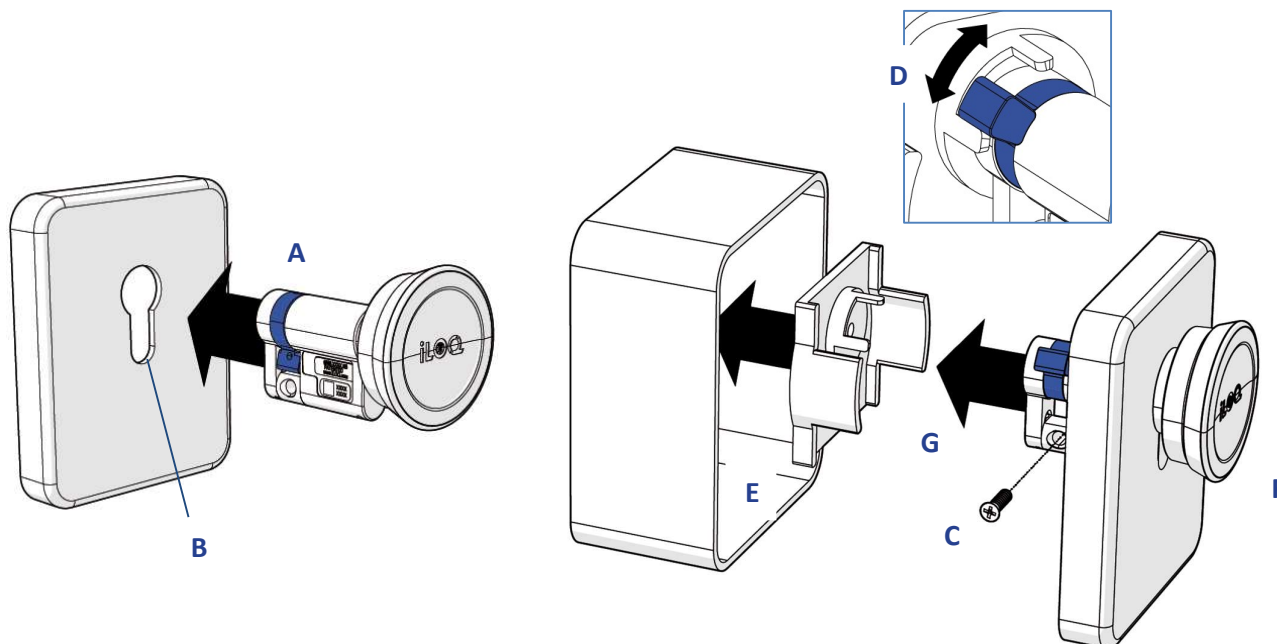
Test the cylinder functionality after installation to ensure that it does not prevent the lock application from working properly.

3. CARE

The product is designed to be maintenance-free. It does not require any regular maintenance.

4. INSTALLATION D50S.511 IN KEY SWITCHES

Please note that the below displayed key switch act only as a demonstrator to get an idea how to install the cylinder. Different key switches are available in the market, for additional (installation) information please see also the documentation from the key switch manufacturer.



- A. Ensure the cam is pointing downwards, otherwise see chapter 6 CAM ADJUSTMENT.
- B. Slide the lock cylinder through the key front plate (and cover if applicable).
- C. Fix the cylinder into the front plate by using an iLOQ fixing screw A10.64. If necessary, cut the screw. Use a tightening torque of 0.9...1.1 Nm.
- D. Adjust the cam to the correct position (in a way that the cam can operate the switches after engaging and turning the knob (but without touching the switch) and will block the adapter inside the key switch).
- E. Check if the switch is in place and secured, and then move the cylinder with the front plate back inside the switch and the housing.
- F. Activate the cylinder by using a Smartphone or Key Fob (with access rights) to test if the combination is working properly.
- G. Turn the knob to the end of the opening position and release the knob
- H. Fix the front plate/cover with the screw / the screws.

5. INSTALLATION D50S.511 IN KEY TUBES

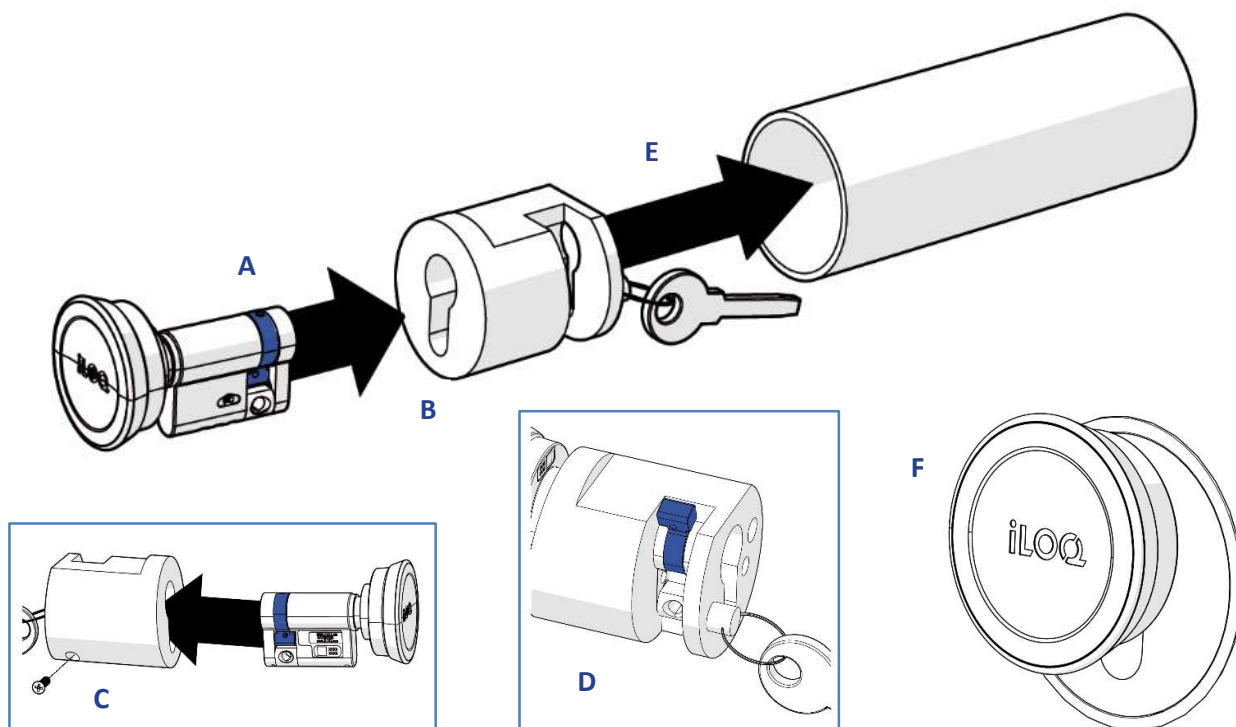
Note:

The cylinder is ready and approved for the following key tubes only:

- Bytel
- SFR
- Kruse Sicherheitssysteme (PZ KeySafe)

In the case the cylinder should be used in other key tubes, it is necessary that iLOQ test and approve the functionality upfront. Please contact your responsible sales manager or our support for further information.

Please note that the below displayed key tube act only as a demonstrator to get an idea how to install the cylinder. For additional (installation) information please see also the documentation from the key tube manufacturer.



A. Ensure the cam is pointing downwards, otherwise see chapter 6 CAM ADJUSTMENT.

B. Slide the cylinder through the key tube adapter.

C. Fix the cylinder into the adapter by using an iLOQ fixing screw A10.64. If necessary, cut the screw. Use a tightening torque of 0.9...1.1 Nm.

D. Adjust the cam to the correct position that the cam will block the adapter inside the key tube if in the locked position.

E. Activate the cylinder by using a Smartphone or Key Fob (with access rights) and turn the knob to the end of the opening position and hold the knob in this position.

F. Move the cylinder with the key tube adapter into the key tube.

G. Release the knob and check if the adapter is in place and secured inside the key tube.

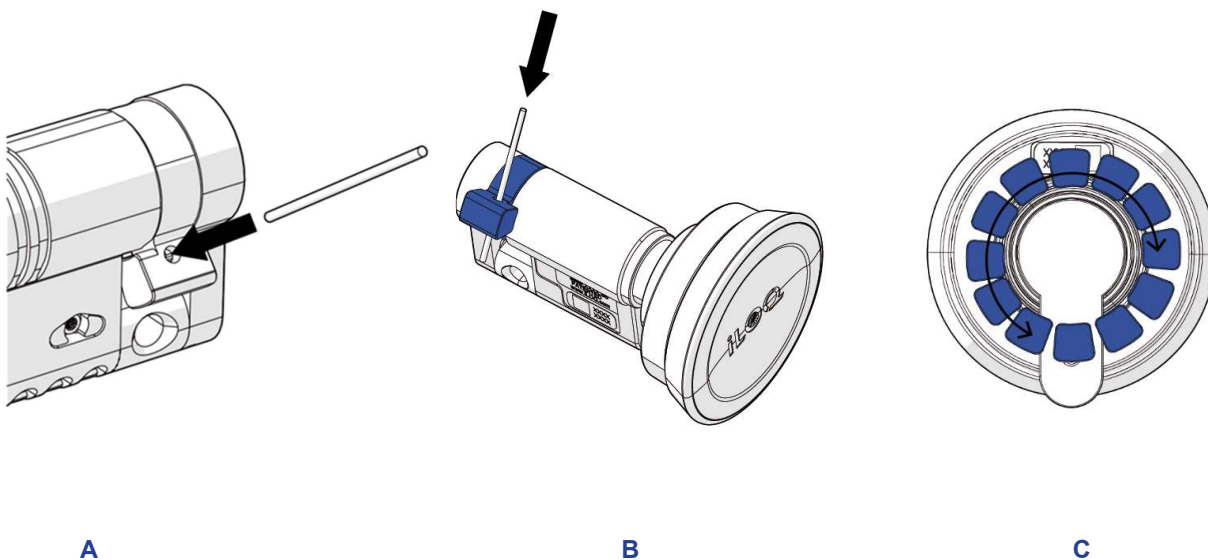
6. CAM ADJUSTMENT

The cam of the cylinder can easily be adjusted to 12 symmetric positions around the 360° (see right picture below), thus it is possible to change the default position of the cam (which is not necessarily the DIN default position).

Due to that functionality, the cylinder is prepared for use in e.g. key switches, where the default position is often at the 11 or 12 o'clock position.

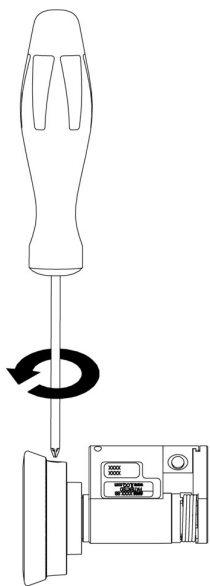
To change the position please do the following steps:

- A. From the side of the cam there is a small hole visible.
- B. Carefully stick a needle (dimension: \varnothing 2 mm with a sharp end) or similar inside the hole to release the mechanism.
- C. After the release of the mechanism, it is possible to move the cam freely to the necessary position.
- D. Take the needle out and check if the cam is locked in place.

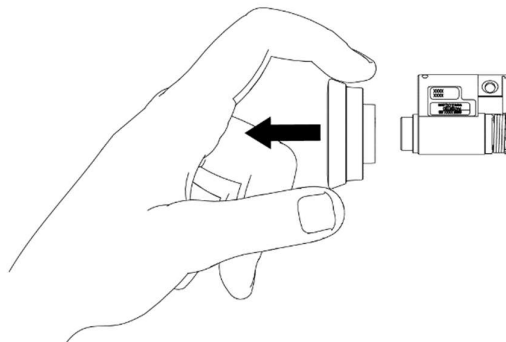


7. KNOB CHANGE

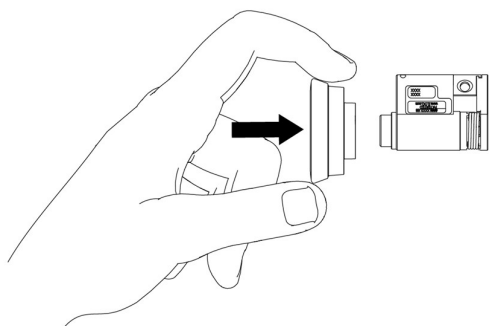
If the reader knob is damaged and needs replacement knob, please follow instructions how to replace the reader knob correctly.



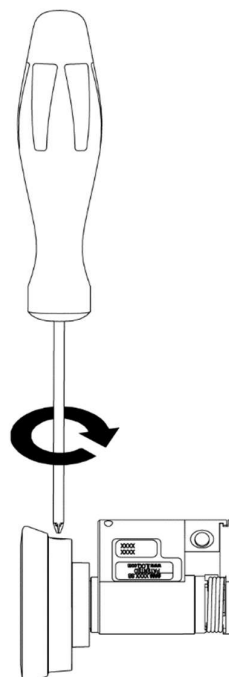
1. Loosen the fixing screw (TX10)



2. Pull the knob off



3. Insert the knob on



4. Tighten the fixing screw
(1.5 Nm tightening torque)

8. INSTRUCTIONS OF USE

1. Hold a valid key against the lock-reader knob and wait until the key shows a green light.

Please note: Due to the large variety of Android phone models and operating system versions, iLOQ cannot guarantee that all NFC-enabled Android phones will work seamlessly with our locks.

Before using the locks, please check the location of the NFC antenna in your phone so that you know the best position to hold the phone against the lock-reader knob.



2. Turn the lock-reader knob to unlock the application resp. activate the relay.



3. Hold the knob and pull the cylinder with the adapter out of the key tube.

9. GENERAL NOTES

1. Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly, does not inhibit the correct operations of the cylinder.
2. Care should be taken to ensure that no projection of the cylinder and associated parts, can prevent the door swinging freely.
3. All components necessary for the specific installation should be fitted.
4. The key is to be kept securely so that only authorized person may have access.
5. In case of losing a key, blocklisting of the lost key shall be done with the iLOQ Manager software and affected locks shall be reprogrammed.

10. DECLARATION OF CONFORMITY

The products mentioned inside this user guide are in conformity with the requirements of the following directives:

- 2014/53/EU Radio Equipment Directive (RED)
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

The conformity was assessed in accordance with RED module A by using the following harmonized and other EN standards:

RED:

Art 3.1(a) Safety	EN 62368-1:2014 + AC:2015 + AC2:2015
Art 3.1(b) EMC EN	EN 301 489-1 v2.2.3 EN 301 489-3 v2.1.1
Art 3.2 Spectrum	EN 300 330 v2.1.1
RoHS	EN 50581:2012

Other standards used:

EN 15684:2020