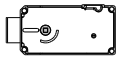
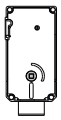
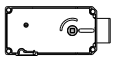
1 General

These mounting instructions are the basis for the approval by ECBS, VdS installation of the lock to be performed exclusively in accordance with these instructions.
Guidelines of the national certification bodies are to be considered and complied with in addition.

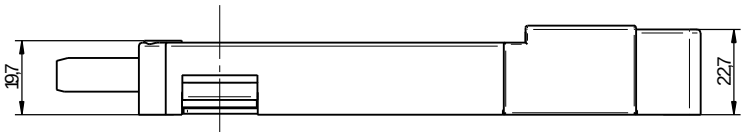
- Use high quality alkaline/manganese monobloc batteries only. Low quality batteries may cause oxidation which results in a functional failure of the lock..
- Avoid residual crystalline moisture in the cabinet (e.g. from varnishing) to make sure that electrical contact areas are not attacked.
- Make sure that the ingress of dirt or detergents (e.g. remaining fillers or cold cleaners) is prevented.
- Do not grease/oil the lock or key.
- It is recommended, that unauthorized persons have no access to security sensitive parts of the lock, also the door of the safe, where the lock is installed, is open.

2 Mounting instructions for lock and control unit

Lock mounting position	
Bolt left	
Bolt down	
Bolt up	
Bolt right	

- Any variation of the lock or key may result in functional trouble and must better not be done. All claims under guarantee and warranty will expire in this case.
- Lock fastening: Use of M6 steel socket head cap screws or BSW ¼" steel bolts. The length of engagement must correspond to the applicable standards considering the thickness of the lock height (see Fig. 1).

Fig.1

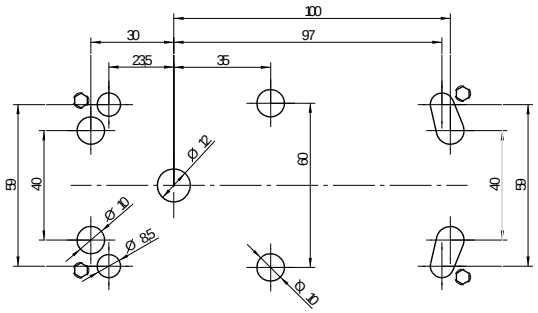


- Fastening screws: minimum property class 4.8 and maximum property class 8.8.
- Screws to be secured either by lock washer, flat spring, tooth lock washer, fan type lock washer considering the diameter (d1) or to be cemented.
- Screw tightening moment : minimum 5 Nm and maximum 6 Nm.
- The bolt must be floating in installed condition.
- Perfect function of the lock and of any additional connected or triggered systems (e.g. boltworks) must be warranted and checked by specialists during installation of the lock.
- The lock must be mounted in closed condition (bolt extended).
- The opening (cable gland) in the door of the secure storage unit may not be greater than 100 sq mm (see mounting diagrams on Page 5 and following).
- The lock is designed for installation in secure storage units made of steel. Installation in storage units consisting of other material e.g. plastic is not allowed.
- Do not apply any kind of force (e.g. hammer blows) for screw fitting and adjustment of the lock.
- Lock to be installed covered and so as to prevent opening by boring.
- The square spindle must be inserted without jamming.
- For installation and adjustment of the lock on the door, make sure that the square spindle can be inserted into the lock without applying force and without jamming. This can be achieved by mounting the lock according to the following pattern of mounting holes (page 5 and following). For further lock dimensions please refer to the Kaba Mauer Catalogue Sheet.

Technical data:

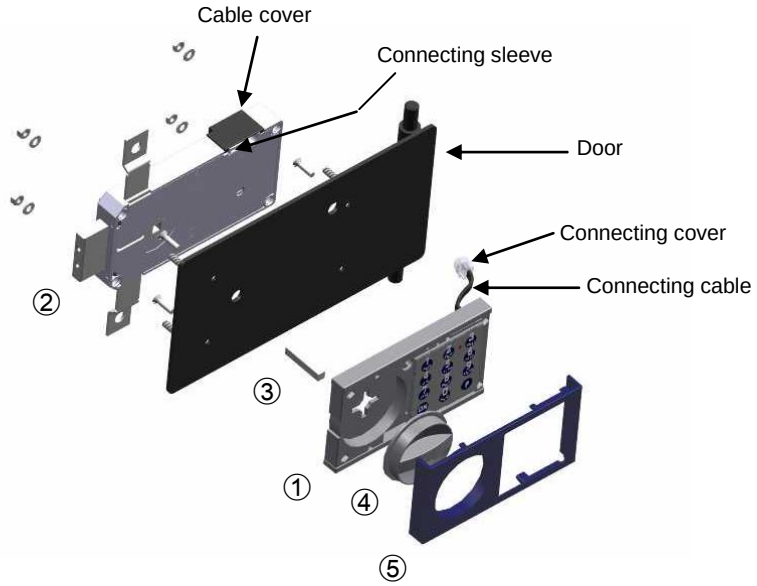
- Lift height of bolt 20 mm
- Bolt extension in locked-out condition: approx. 22 mm
- Bolt width: 40 mm; Bolt height: 9 mm
- The maximum allowable force acting on the key bolt in opposite direction to the direction of locking, the maximum locking force and the lateral load acting on the bolt, correspond to 1 KN and should not exceed this value. Provision should be made design wise for bolt stoppers on both ends or for a bolt support.
- The bolt was according to EN1300 with a permanent load of 2,5 N over 10.000 cycles tested. These load should not be exceeded permanently.
- The actuating torque on the spindle must not exceed 2.5 Nm.
- Fastening of the boltwork: via two M4 threads on the front end of the bolt head.

Fig. 2: Mounting plate measurements



3 Assembly

Fig. 3: Exploded view
82021Code-Combi K



① Fixing input unit.

- Insert the input unit's connecting cable through the door of the safe.
  Care must be taken to ensure that the connecting cable is not damaged during installation. Neither the protective cable casing nor the wiring may be damaged as there would otherwise be a risk of short circuits occurring. The cable should be safeguarded against damage by means of protective casing or plastic tubing. Care should also be taken to ensure there are no kinks in the cable or that it is not crushed when it is fixed.
- Adjust the plastic input unit and fix with screws. There are two possibilities of fixing the input unit:
  1. From the inside of the door (see Fig. 4) with M4 countersunk screws or
  2. From the outside of the door (see Fig. 5) with M4 cheese head screws

Fig. 4: Fixing from the inner side of the door

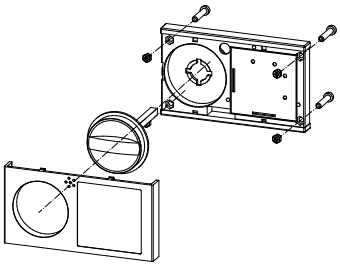
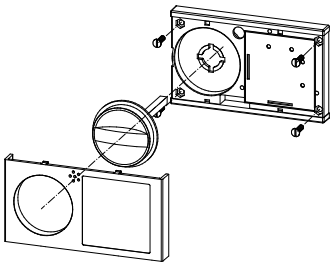


Fig. 5: Fixing from the outside of the door



② Fix lock.

- Insert the connecting plug in the lock's socket.
- Adjust the lock and fix with screws.
- Fit cable cover.

③ Insert operating shaft in the lock.

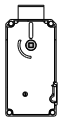
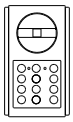
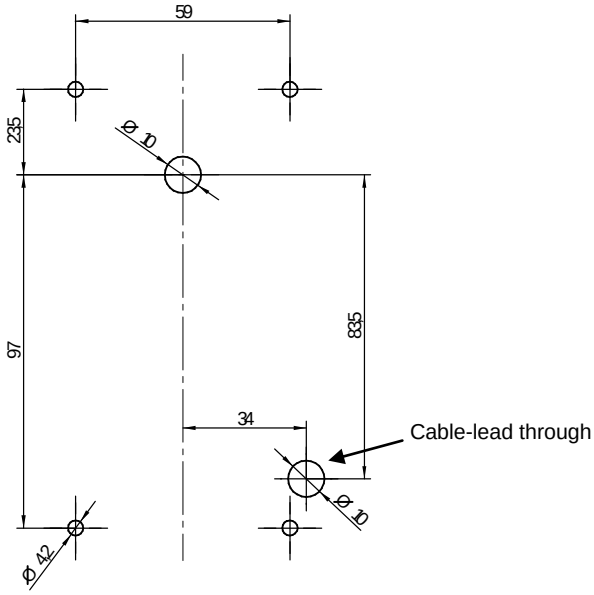
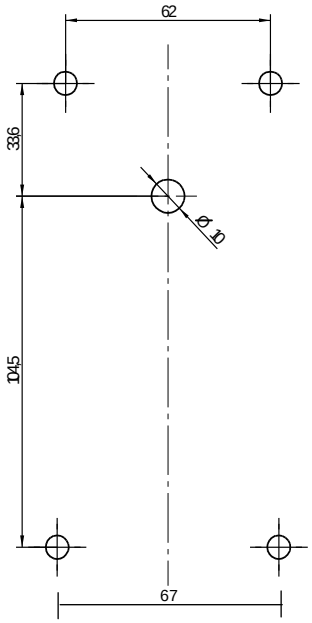
④ Fit operating button on the operating shaft.

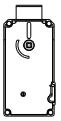
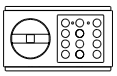
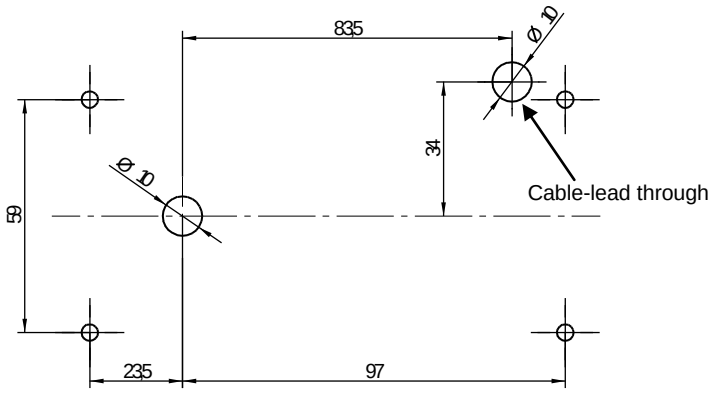
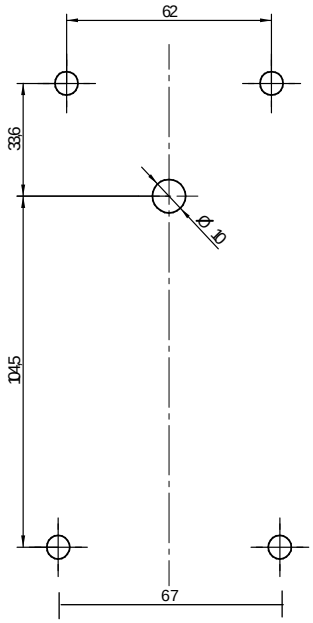
⑤ Fit cover plate.

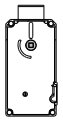
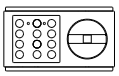
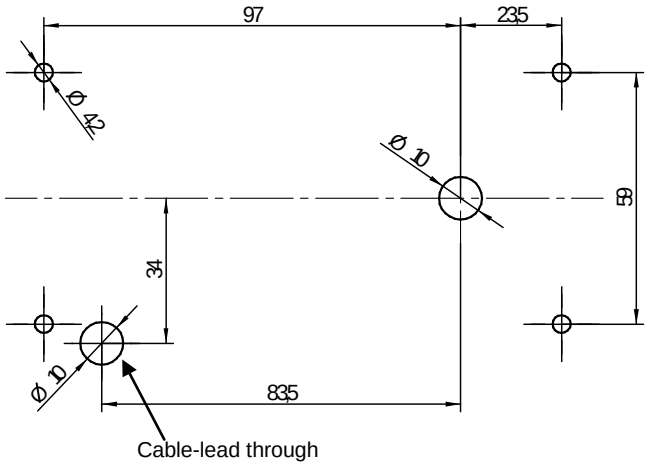
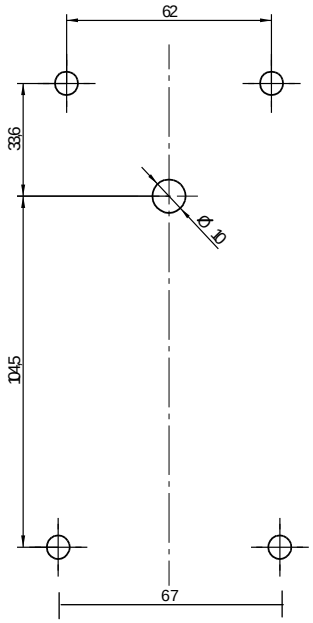
4 Final testing

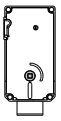
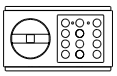
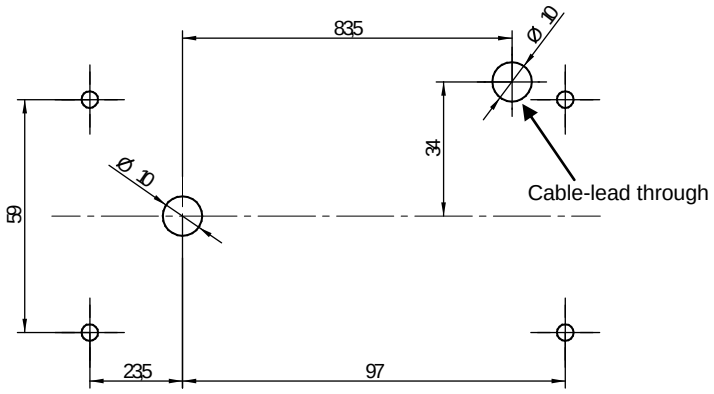
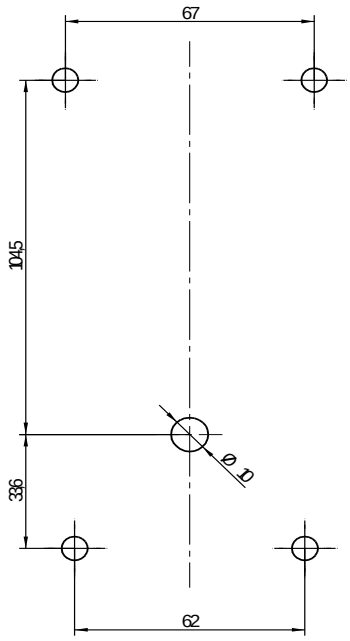
- After the fittings have been fixed the handle should be freely movable. When turned 30° the spring action should bring the handle back into the original position.
- The correct functioning of the lock is to be tested in accordance with the operating instructions.

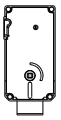
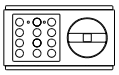
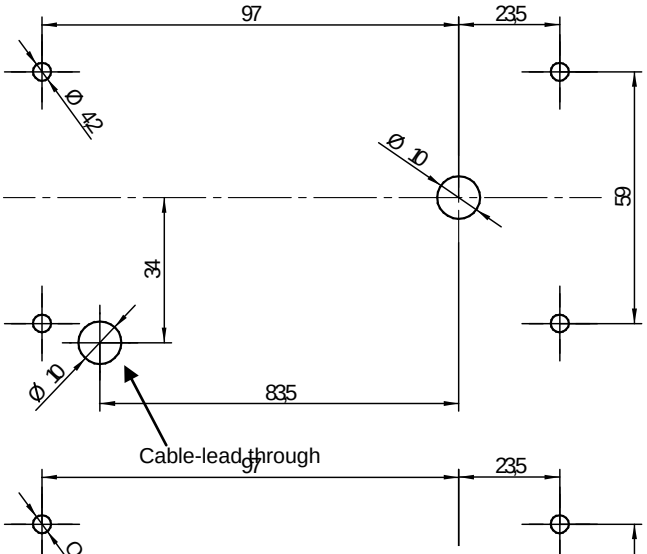
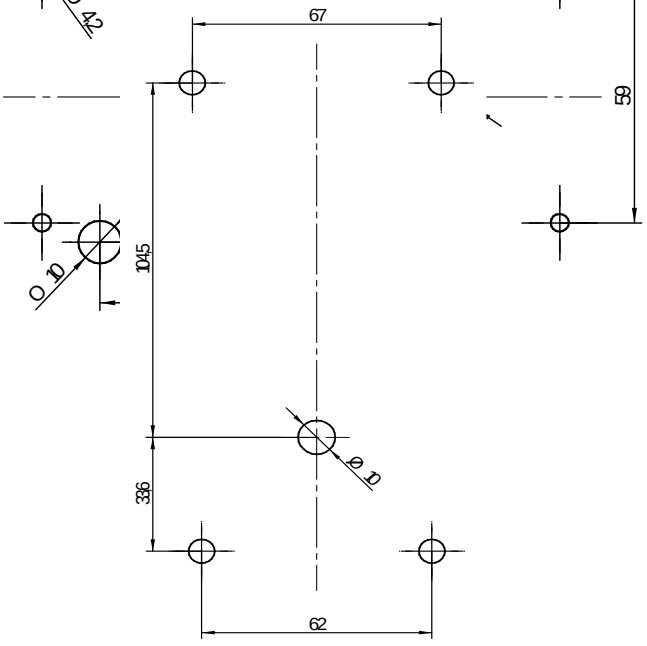
5 Assembly Diagrams

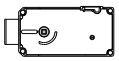
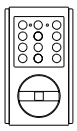
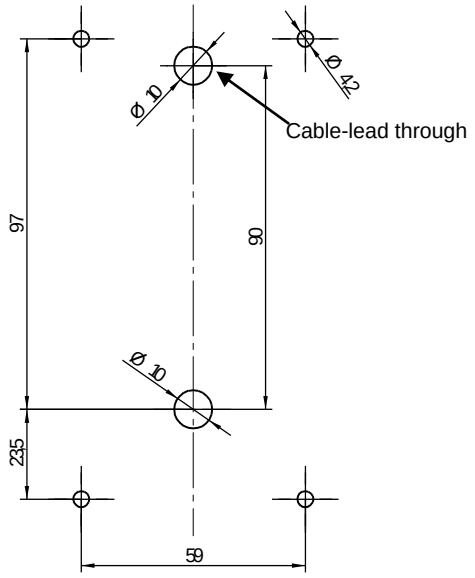
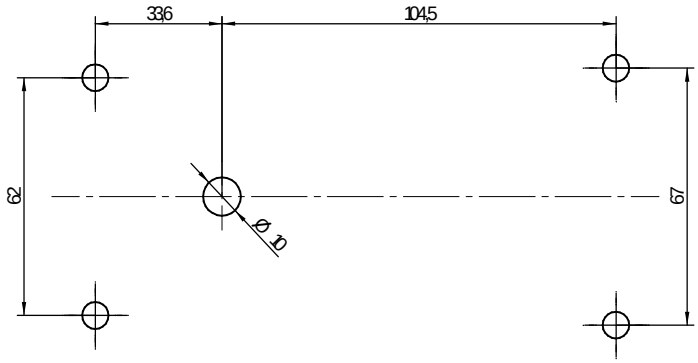
Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

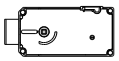
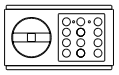
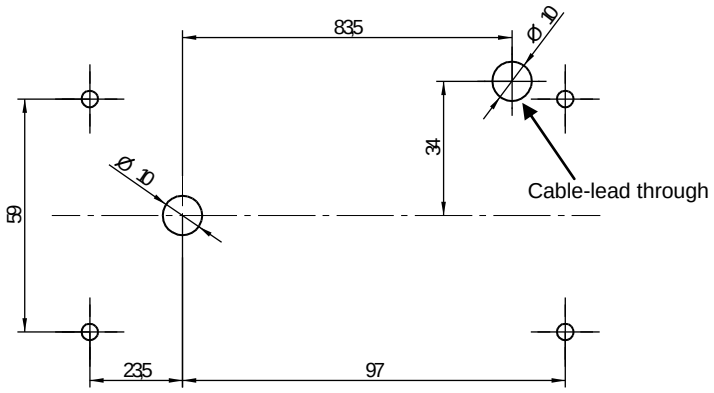
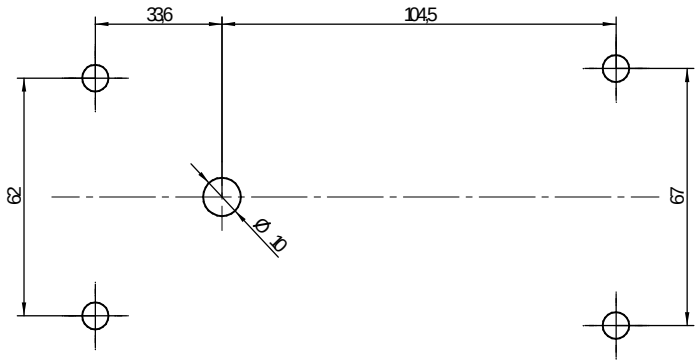
Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

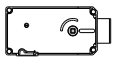
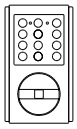
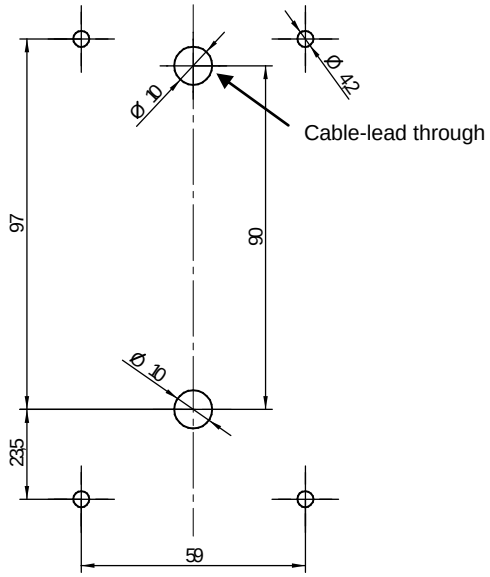
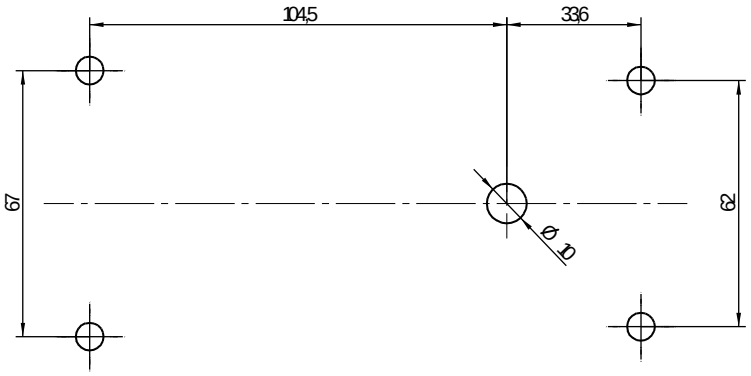
Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

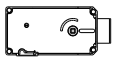
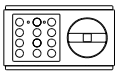
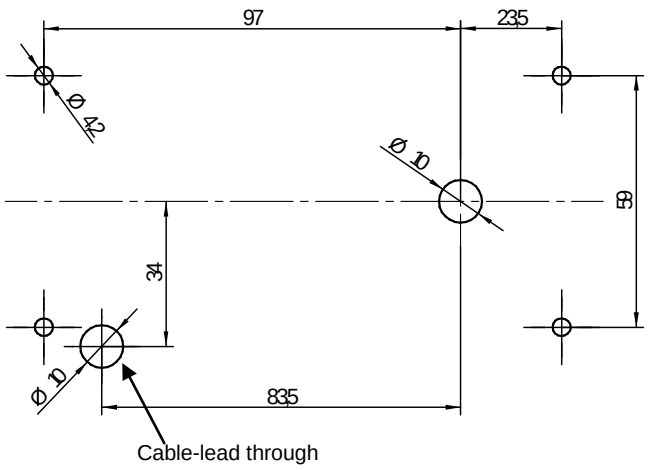
Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock	

Installation position of lock	
Installation position of input unit	
Hole dimensions of input unit	
Screw fixing points for lock