



1. Tip:	1
2. Assembly: door seal	1
3. Assembly: panic lock with 2 lever handles (when working with insulated door)	2
4. Conversion: panic lock with lever handle outside and panic bar inside	6
4.1 Fit panic pin	7
4.2 Fit panic bar	8
4.3 Adjusting the panic bar fittings	12
5. Replacing the panic lock	15
5.1 Removing the panic bar fitting from inside the door	16
5.2 Removing the lever handle from inside the door	17
5.3 Remove panic pin	17
5.4 Replacing the panic lock	18
6. Fold-door-handle assembly	19
7. Preparing for shipping	20
8. Grease the strap hinge	20
9. How a panic lock works	21

1. Tip:

This Technical Instruction describes the installation of a panic lock with two lever handles or with a lever handle outside and a panic bar inside.

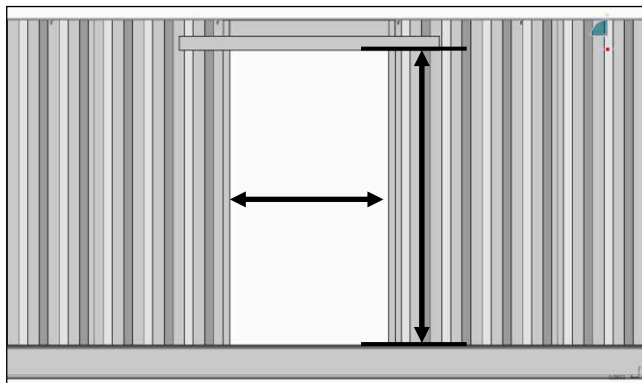
It also describes the required position of the individual parts during transport.



Please observe the safety and hazard signs in the safety instructions (TI 2300-0005) and wear the appropriate "personal protective equipment".

2. Assembly: door seal

Cut a length of door seal material to the dimensions specified in the drawings.



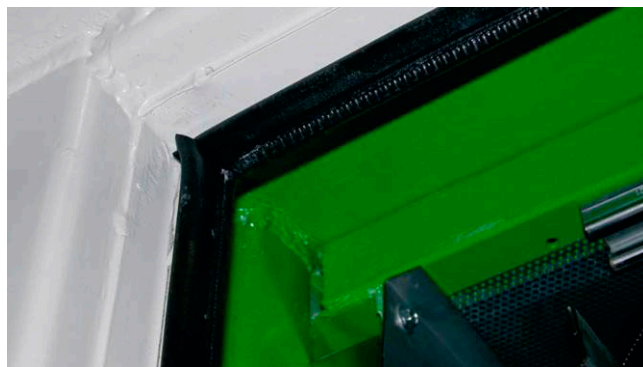
Taper the door seal.

As shown in the illustration, the seal material should be tapered at the abutting ends.





Once cut to shape, affix the door seal elements to the door frame with adhesive.



3. Assembly: panic lock with 2 lever handles (when working with insulated door)

Fit panic lock.



Attach the lock securely using 2 screws.





Fit the plastic part of the rosette.



Insert profile half-cylinder and fix with screw.



Attach the lock and the half cylinder with 3 screws.

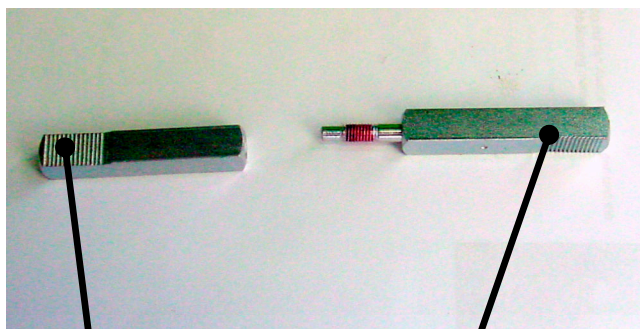




Fit the rosette.



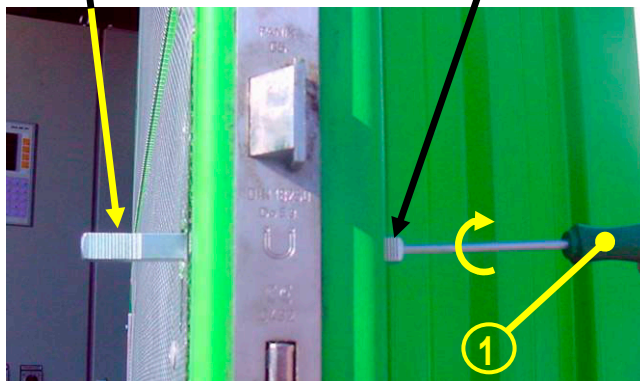
Where two lever handles have to be fitted, this panic pin must be used.



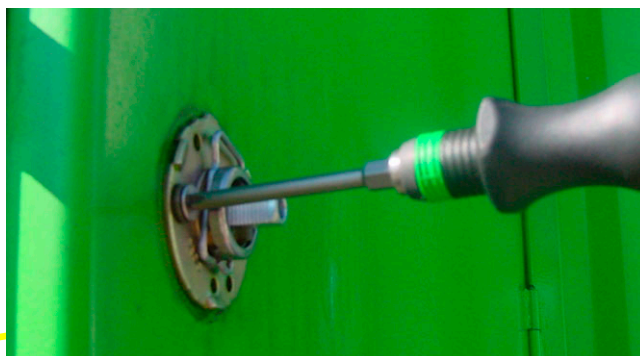
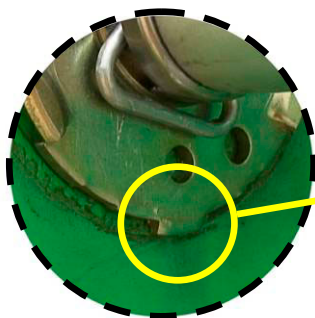
As shown in the illustration, push in the panic pin from outside and inside the door and tighten with a screwdriver (1).



Tighten as far as the stop.
Ensure that the ribbed side is facing the right way.



Tighten the mounting for the lever handle.
Check: when fitted correctly, the hub must always point downwards.

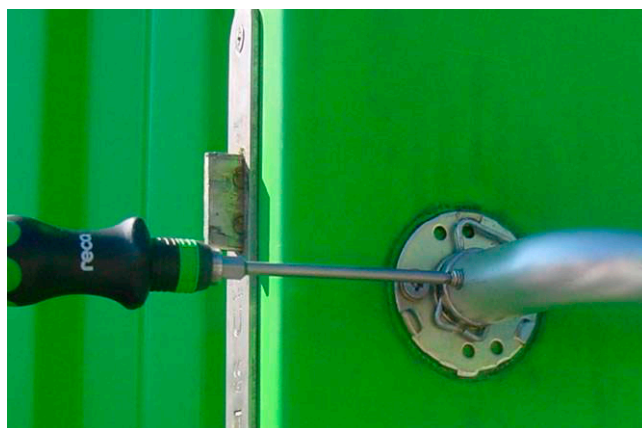




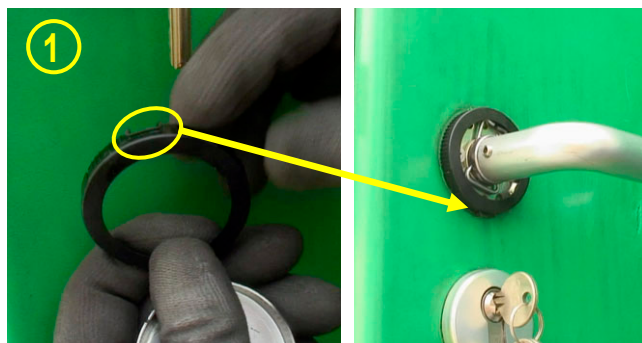
Push in lever handle.



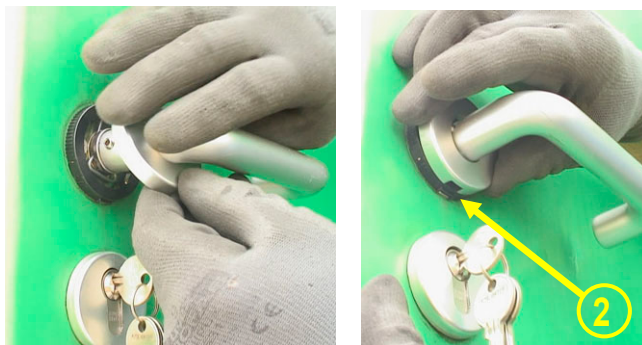
Tighten hexagonal socket screws on both lever handles.



Push cover over the top.
The recess (1) must fit over the hub.



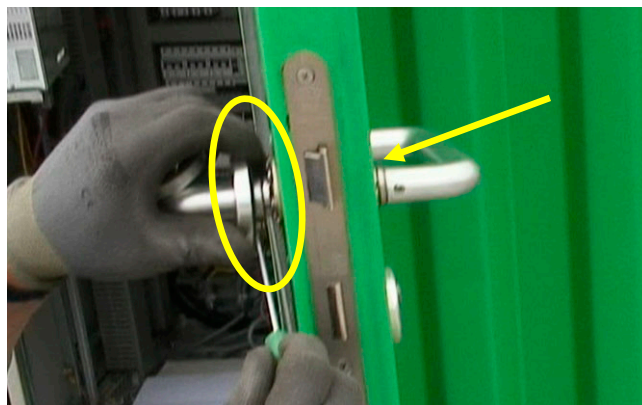
Push pair of lever handle rosettes over the top.
Make sure that the recess (2) fits over the hub.





4. Conversion: panic lock with lever handle outside and panic bar inside

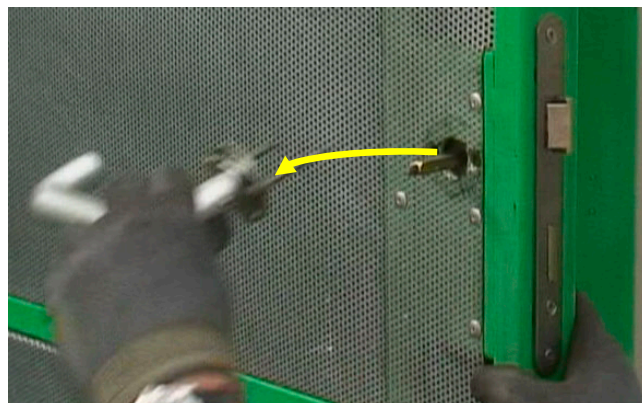
Remove pair of lever handle rosettes



Dismantle lever handle on both sides



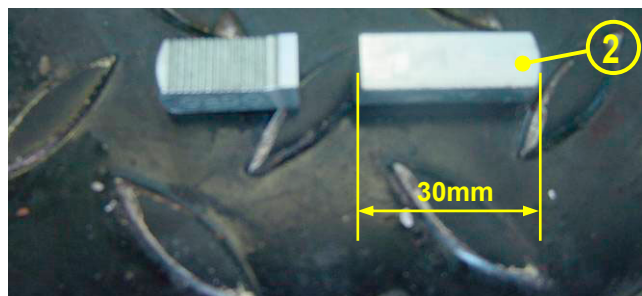
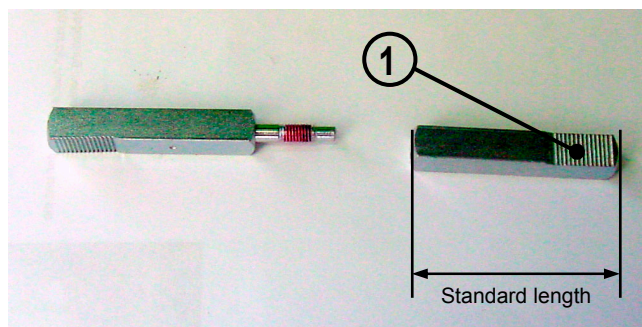
Remove lever handle from door



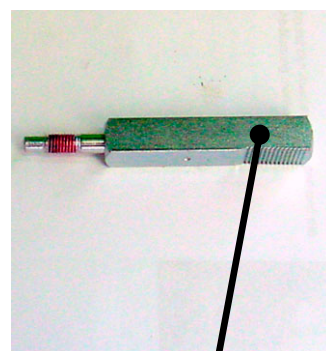
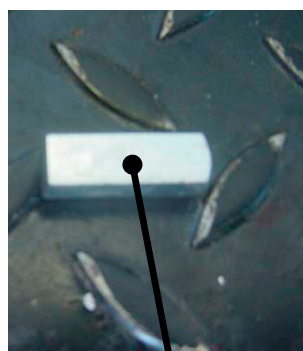


4.1 Fit panic pin

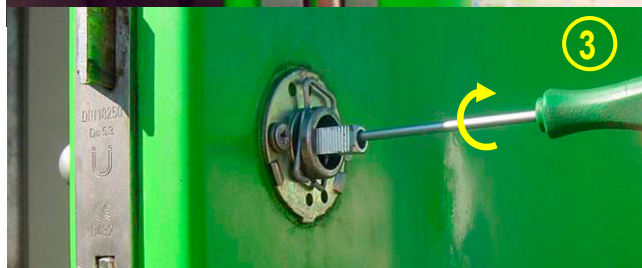
When converting from lever handle to panic bar, cut the standard panic pin (1) to a length of 30 mm (2).



The panic pin for the panic bar on the inside of the door must be fitted as follows.



As shown in the illustration, push in the panic pin from outside and inside the door and tighten with a screwdriver (3).

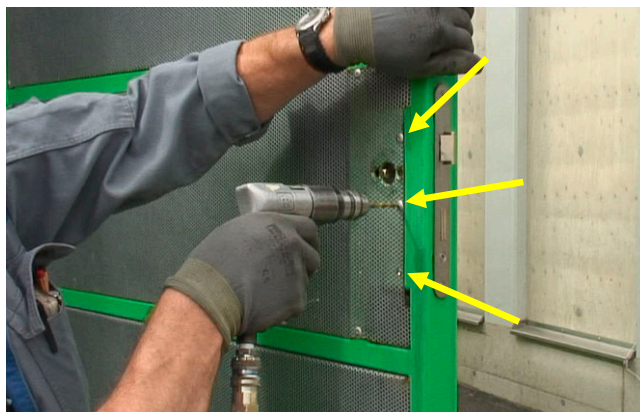


Tighten as far as the stop.

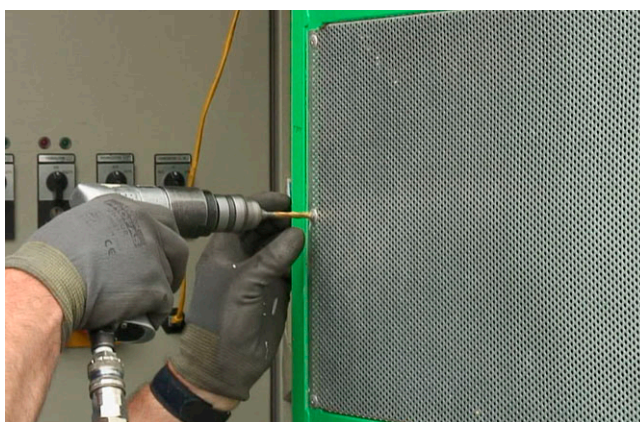


4.2 Fit panic bar

Drill out 3 rivets



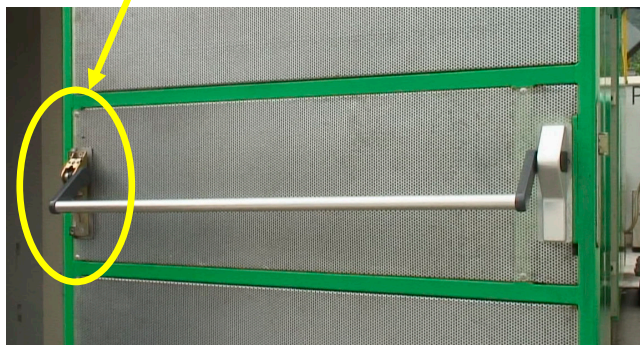
Drill out 1 rivet.



Prepare mounting (metal plate with corresponding pattern of holes) for the panic bar fittings as shown in the drawing.

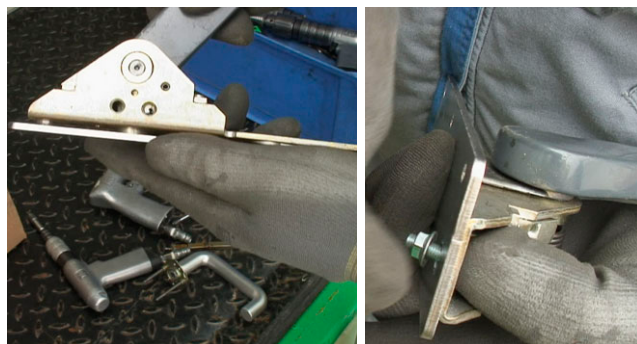


Prepare the panic bar fittings which are to be positioned inside the door on the LEFT, as shown in the illustration.





Assemble the panic bar fittings and mounting using the appropriate nuts and bolts.



The assembled panic bar fittings plus mounting should appear as shown in the illustration.



Next, spot weld the nuts to the metal plate.
After welding, clean the weld seam with a wire brush.

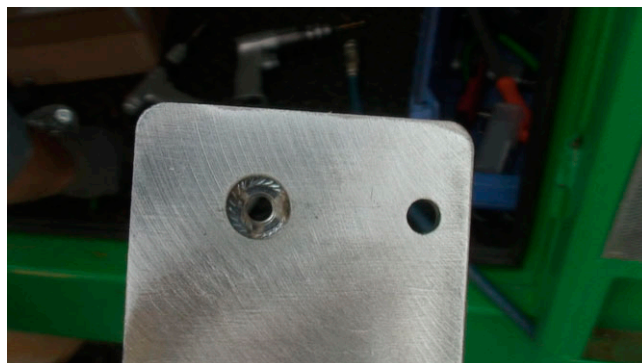


Do not weld the bolts as well!



Remove the bolts.

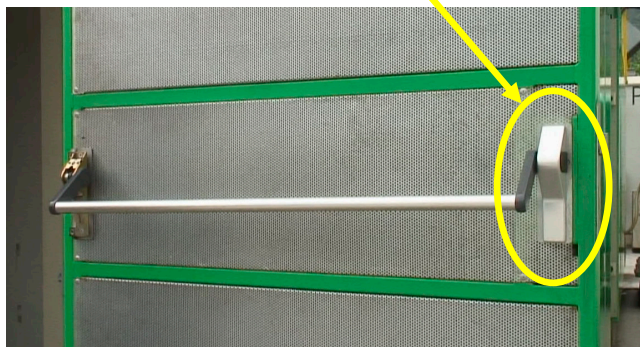
View: mounting with nut welded to it.



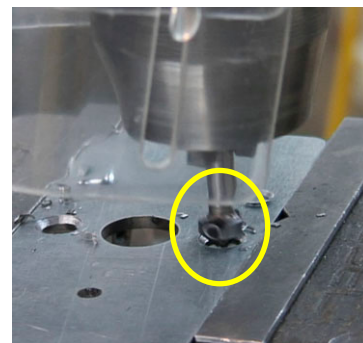
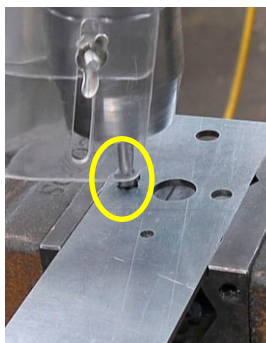



Prepare mountings (metal plate with corresponding pattern of holes) for the panic bar fittings as shown in the drawing.

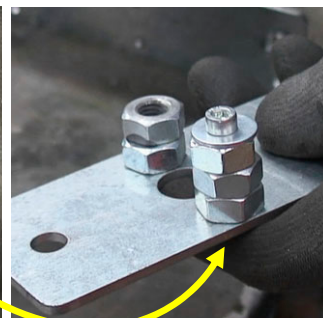
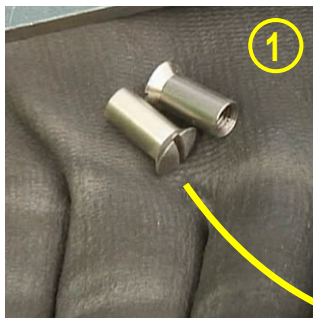
Prepare the mounting which are to be positioned inside the door on the RIGHT, as shown in the illustration.




Drill the two holes for the two bolts using a countersink drill.



 Push threaded bushes (1) into the countersunk holes and tighten, using nuts as distance holders and the appropriate bolts.



Spot weld the threaded bushes to fix them to the countersunk side.

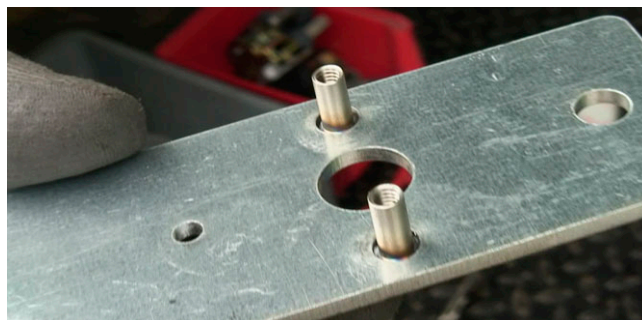
 Next, grind off any projections.



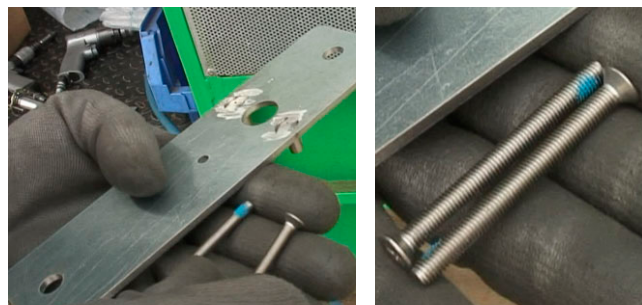


Remove the nuts along with the bolts

View: mounting with threaded bushes welded to it.



Prepare metal plate with appropriate bolts

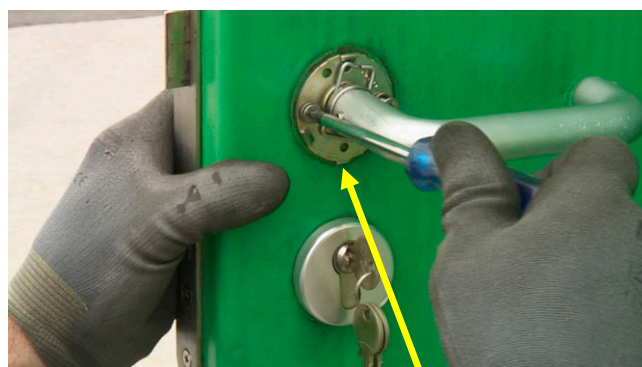


Push the mounting plate on the inside of the door into the specified holes.

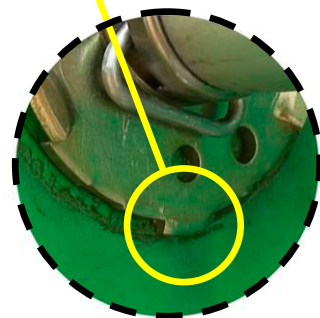
Push the lever handle and associated screws (M5x55) on the outside of the door into the specified holes.



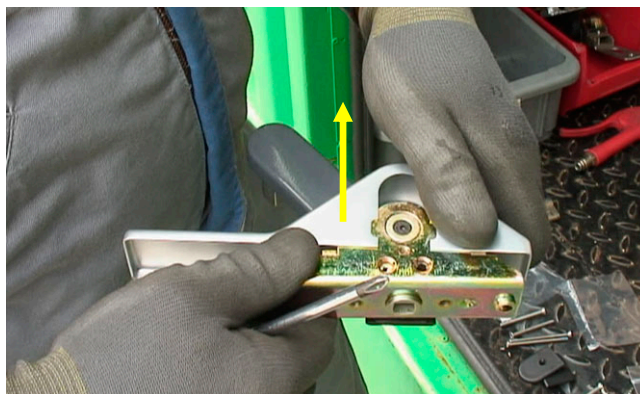
Tighten the door handle with screws (M5x55)



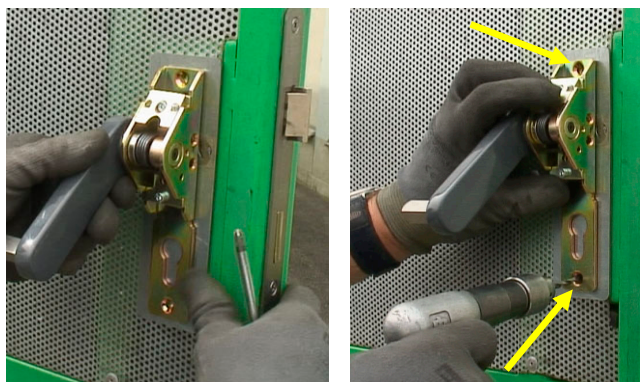
Check: when fitted correctly, the hub must always point downwards.



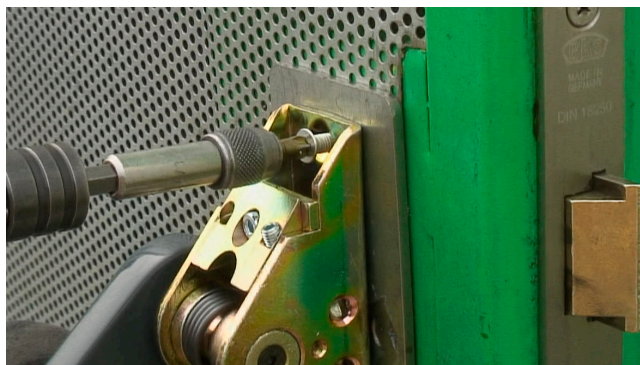
Remove cover from panic bar fitting.



Hold the panic bar fitting against the mounting plate and pre-drill holes in the appropriate places in the door.



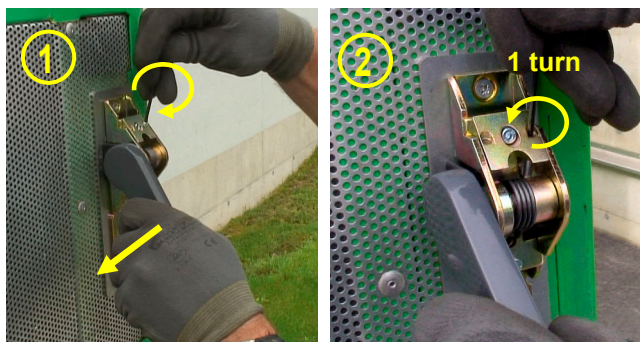
Screw panic bar fitting to the door.



4.3 Adjusting the panic bar fittings

As shown in **Fig. 1**, the lever must be pushed as far down as it will go. At the same time, use an Allen key to tighten the hexagonal socket screw from above until it stops.

Next, unscrew the hexagonal socket screw by 1 turn, as shown in **Fig. 2**.

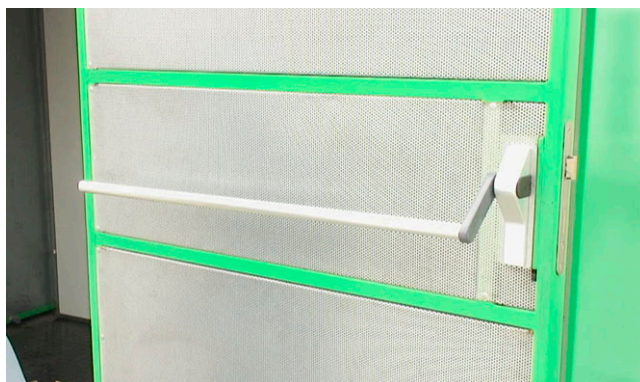




Fit the cover to the panic bar fitting and mount the side cover.



Attach panic bar



Fit panic bar fitting plus mounting plate to the other end of the panic bar.



Measure the distance from the panic bar fitting already mounted.
Next, mark the correct position for the panic bar fitting yet to be mounted.





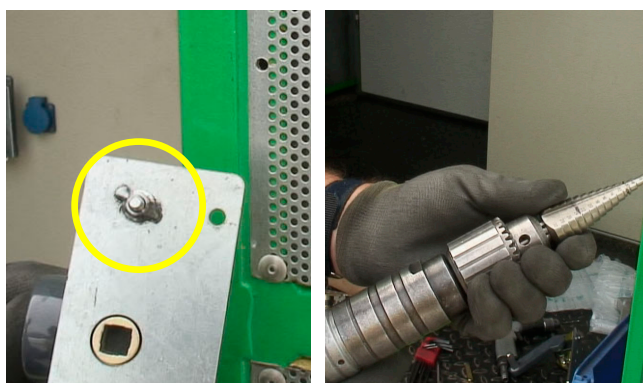
Hold the panic bar fitting in the correct position and pre-drill a hole.

Screw in the panic bar fittings and mounting (see arrow).

Next, pre-drill the rest of the holes.



Recesses still have to be made in the door plate for the welded nuts (see circle).



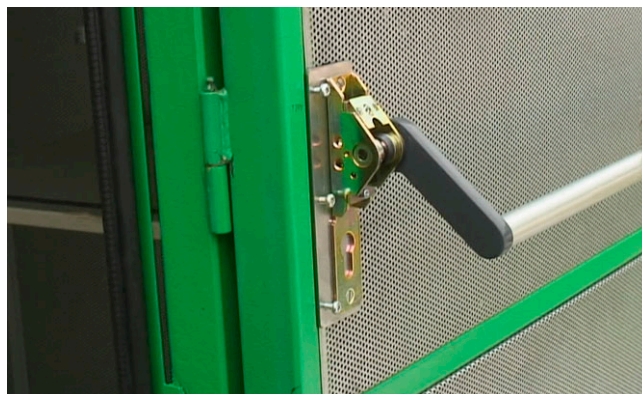
A special drill is used to drill recesses in the door plate to accommodate the welded nuts.



Fit the panic bar fitting back on the bar.



Screw panic bar fitting to the door.

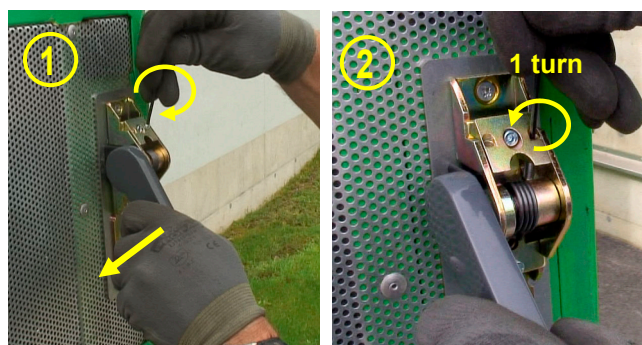


Adjust the panic bar fittings.

As shown in **Fig. 1**, the lever must be pushed as far down as it will go. At the same time, use an Allen key to tighten the hexagonal socket screw from above until it stops.



Next, unscrew the hexagonal socket screw by 1 turn, as shown in **Fig. 2**.



Fit the cover to the panic bar fitting and mount the side cover.



5. Replacing the panic lock

Depending on the situation at hand, either the lever handle, see Fig. 1, or the panic bar fitting, see Fig. 2, must be removed.



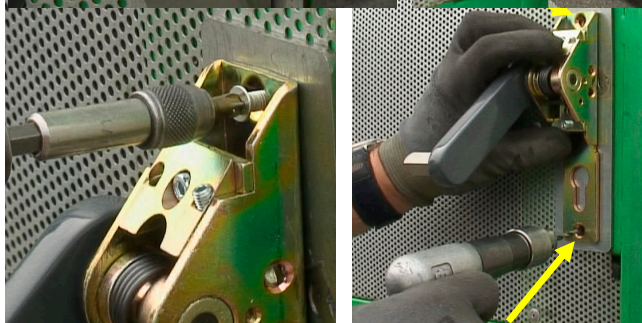


5.1 Removing the panic bar fitting from inside the door

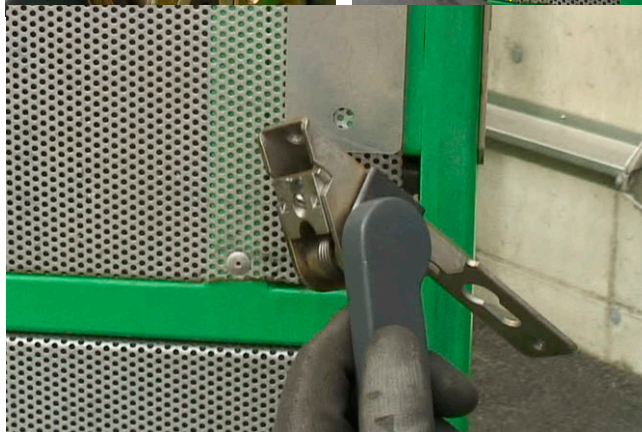
Use Phillips screwdriver to remove side cover. Next, remove the cover of the panic bar fitting.



Remove 3 screws from the panic bar fitting.

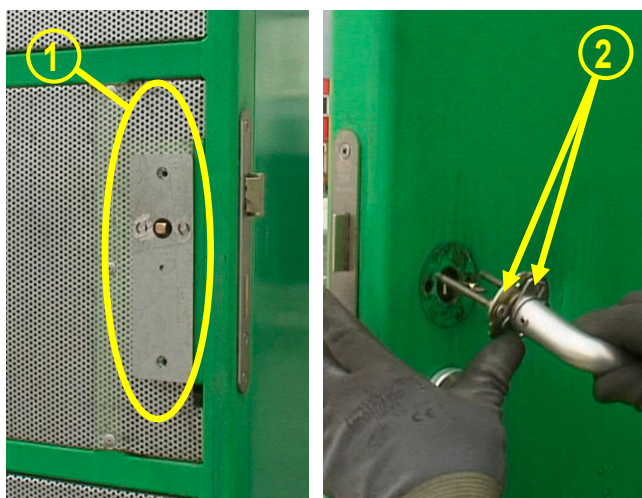


Remove the panic bar fitting.



To remove the mounting plate (1), unscrew the two screws (2) from the lever handle on the opposite side of the door.

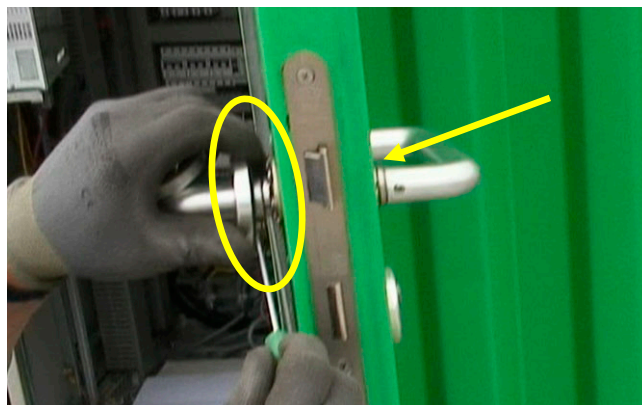
Next, remove the mounting plate and the lever handle from the door.





5.2 Removing the lever handle from inside the door

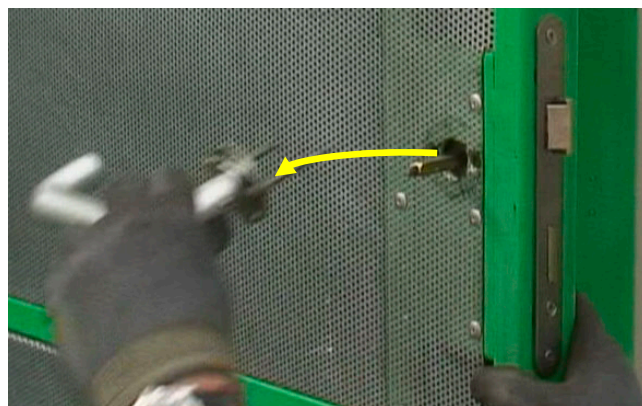
Remove the pair of lever handle rosettes from both sides.



Remove screws from the lever handle.

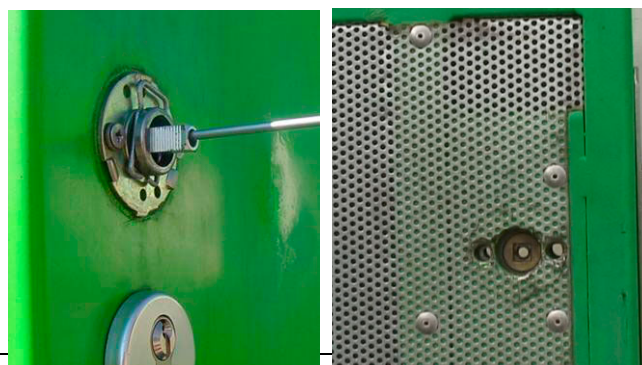


Remove the lever handles from both sides of the door.



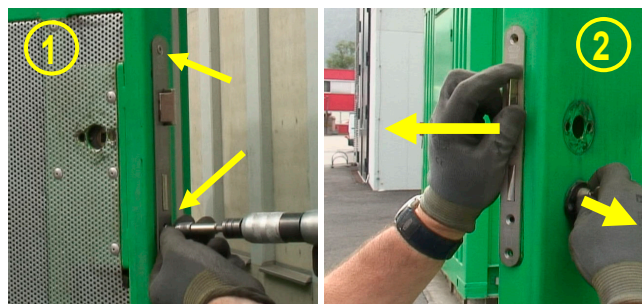
5.3 Remove panic pin

Loosen the panic pin with a screwdriver and pull out through the inside and outside of the door.



5.4 Replacing the panic lock

Use a screwdriver to loosen 3 screws (Fig. 1) and then pull the lock and built-in cylinder out of the door simultaneously (Fig. 2).

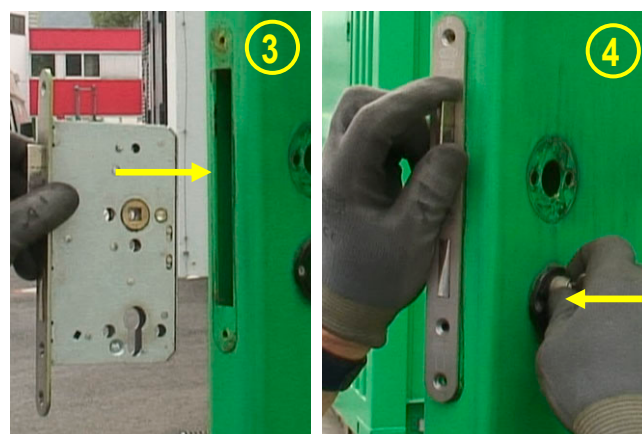


Fitting a new lock.



Caution: make sure you know which is the correct side of the door and lock.

First insert the lock as shown in Fig. 3 and then the closing cylinder as shown in Fig. 4.



Screw the lock to the door using 3 screws.



The panic lock has now been fitted. Now, either a lever handle or a panic bar can be fitted on the inside of the door, depending on the parts required. Both have already been described earlier in this document.



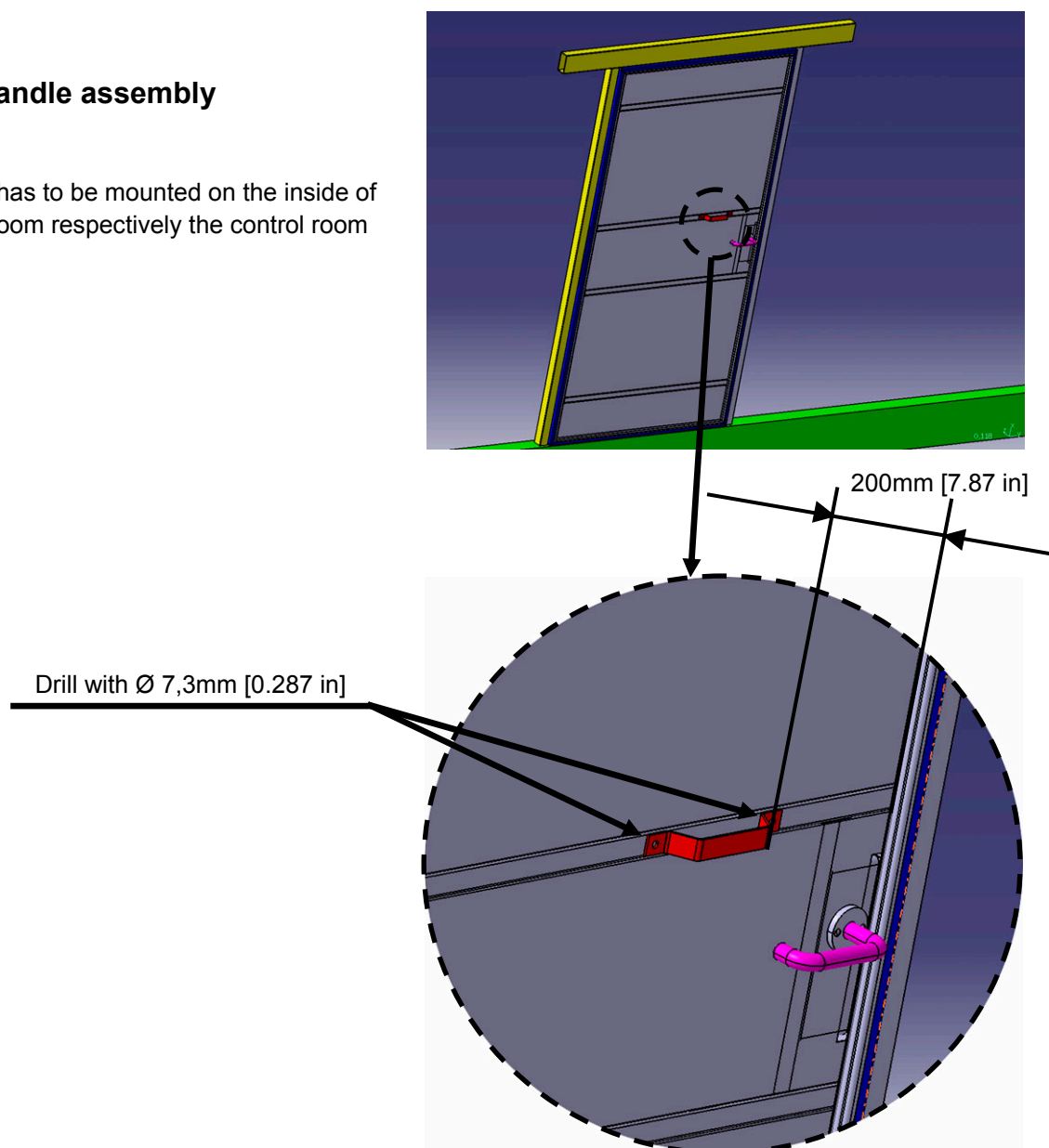
For the installation of a lever handle on the inside of the door, we would therefore refer you to section 3.

For the installation of a panic lock with 2 lever handles or a panic bar on the inside of the door, please refer to section 4.1 Fit panic pin and 4.2 Fit panic bar.



6. Fold-door-handle assembly

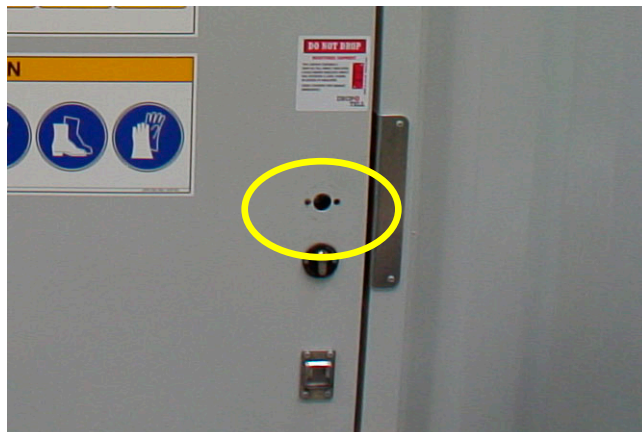
The handle has to be mounted on the inside of the engine room respectively the control room door.





7. Preparing for shipping

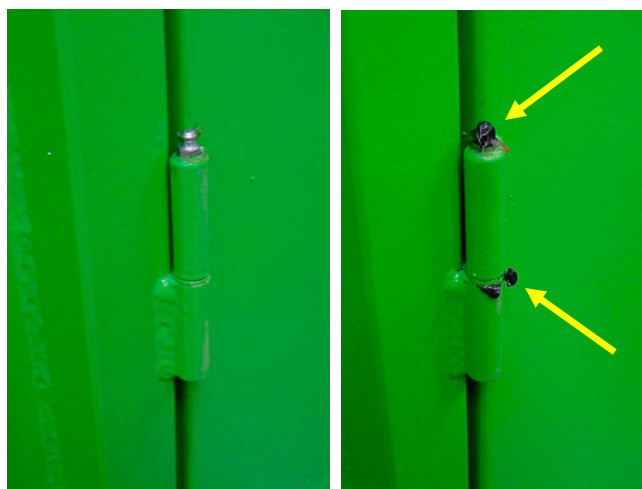
For shipping purposes, the lever handles and panic pins must be removed from the outside of the container doors.



The lock and the hole left from the removed lever handle must be taped over with adhesive tape.



8. Grease the strap hinge



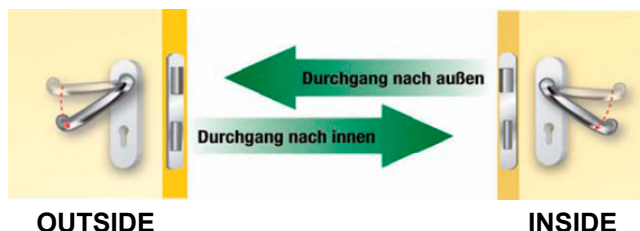


9. How a panic lock works

Basic setting: key unlocked as far as the stop.

Going from inside to outside:

You can pass through from both sides by using the lever handle, which pulls back the latch, and the lock nut is engaged on both sides.



One-way lock: one turn of the key

Coming from outside: no load, as the nut is disengaged. The door can only be opened with a key (1 turn). This engages the lock nut and the door can be opened using the lever handle.

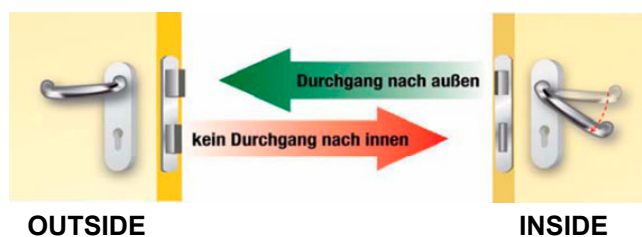
Coming from inside: exit. The door can basically be opened at any time.



Locked position: two turns of the key

Coming from outside: no load, as the nut is disengaged. The door can only be opened with a key (2 turns). This engages the lock nut and the door can be opened using the lever handle.

Coming from inside: exit. The door can basically be opened at any time.



Durchgang nach außen	Way out
Durchgang nach innen	Way in
kein Durchgang nach innen	No way in