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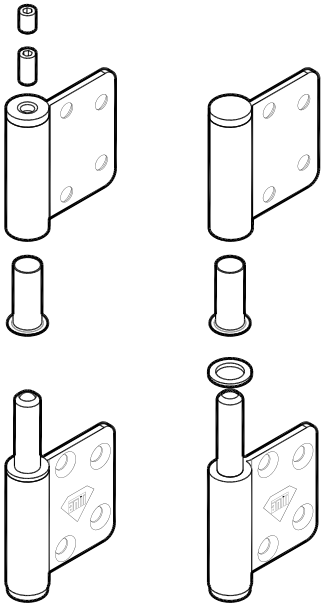
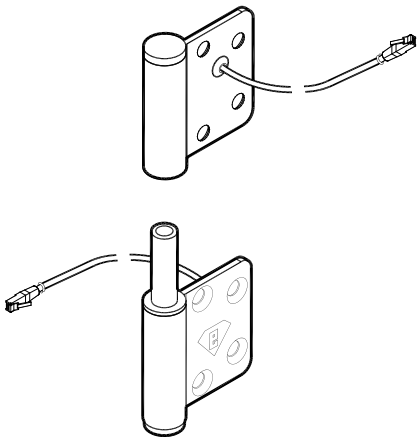
Adjusting and refitting of hinges to doors manufactured by Antti-Teollisuus Oy

Adjusting and refitting instructions of 2-D hinges
Refitting instructions of e-hinges





28-01-2022

These instructions replace the instructions for adjusting and refitting of hinges to doors 20-10-2020.

SARANA VAIHTO_EN

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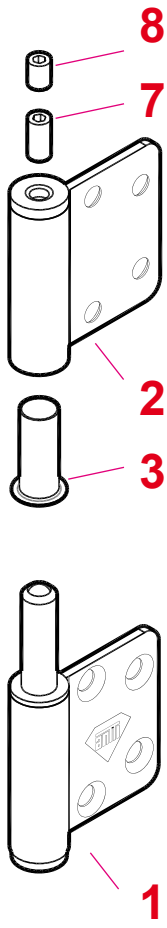
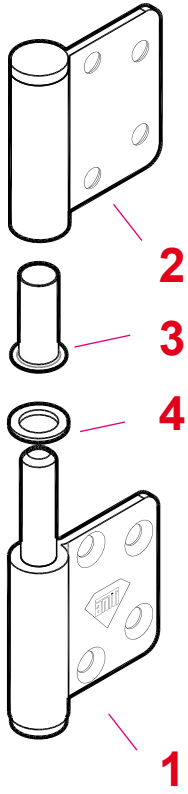
The adjustment hinge is easily recognised by the screw hole in the deck of the upper part of the hinge.



Hinge with adjustment screw



Hinge without adjustment screw

(left-handed in the pictures)

2-D hinge structure

Parts of pivot bearing hinge

Pos.	Description
1	Male part of hinge
2	Female part of hinge
3	Bushing
4	Dummy washer
7	Adjusting screw
8	Locking screw

PLEASE NOTE!

2-D hinge is permanently lubricated

Do not use lubricants!

NOTE!

Hinges are always changed as a complete series, when old leaf-supported hinges are replaced with new pin-supported hinges.

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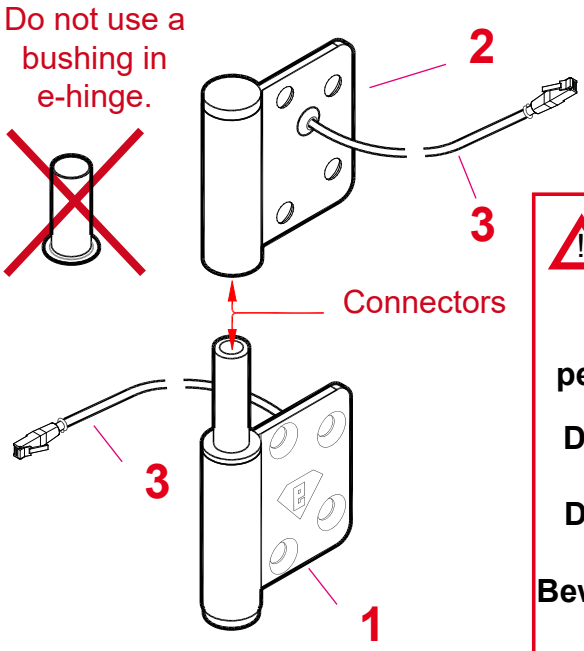
e-hinge structure



e-hinge to doors
(left-handed in the picture)

PLEASE NOTE!

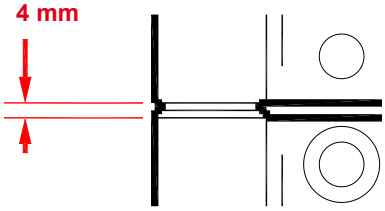
e-hinge is permanently lubricated

Do not use lubricants!

Do not use a bushing!

Beware of the connectors inside the hinge!

e-hinge height adjustment range is 4 mm



Hinge parts

Pos.	Description
1	Male part of hinge
2	Female part of hinge
3	Data cable

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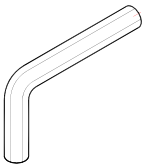
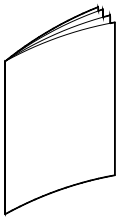
Pin supported hinge adjustment

Tools required for adjustment

Picture 1. Adjusting tools



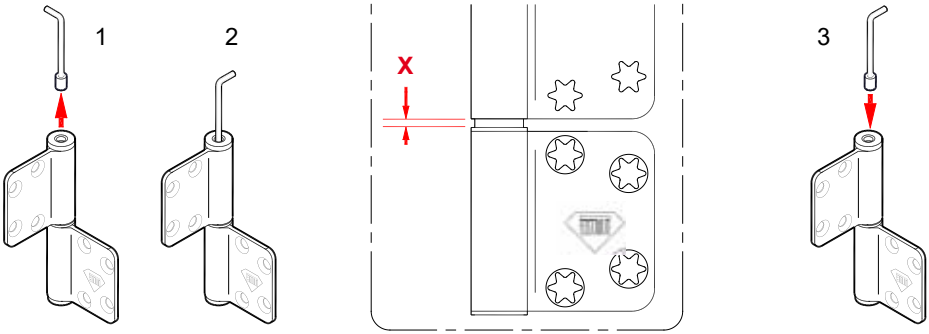
3 mm hex tool



Adjusting and refitting instructions of 2-D hinges

No adjustment plates are needed for the adjustment!

Adjusting of 2-D hinge



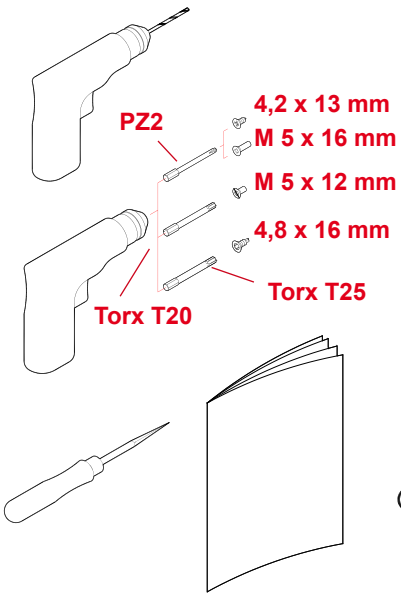
Picture 2.

1. Use an hex tool to remove the hinge locking screw.
2. Use the hinge adjusting screw to adjust a 2.2 - 6 mm space (X in the picture) between the upper and lower hinge parts. If the door has an e-hinge, the dimension X may be between 2.2 and 4 mm. Use the same hex tool.
3. Reinstall the hinge locking screw and ensure the adjustment by tightening the locking screw against the adjusting screw.
   Check that the adjustment is not altered when the locking screw is tightened.

Needed tools

Refitting of hinge

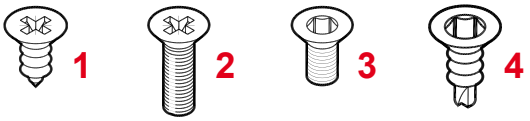
Picture 3. Needed tools for refitting



- Drill D 4.5 mm
- extra long screw driver bits
  PZ2 for 4,2 x 13 sheet screws
  PZ2 for M 5 x 16 thread forming screws
  Torx T20 for M 5 x 12 thread screws
  Torx T25 for 4.8 x 16 sheet screws
  (use bit extension if necessary)
- marking pin
- Adjusting and refitting instructions of 2-D hinges

Fitting screws for hinges

Picture 4. Screw options



1 Sheet screw 4.2 x 13 mm

2 Thread forming screw M 5 x 16 mm

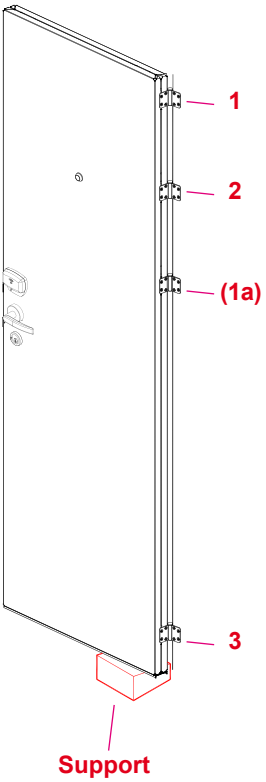
3 Thread screw M 5 x 12 mm

4 Sheet screw, self tapping 4.8 x 16 mm

If the old screw is nr	Install with screw nr	Or nr
1	2 (screw holes reamed with drill Ø 4,5 mm)	1 or 4
2	2	-
3	3	-
4	4	-

The replacing order of hinges and supporting the door

Picture 5. The replacing order of hinges



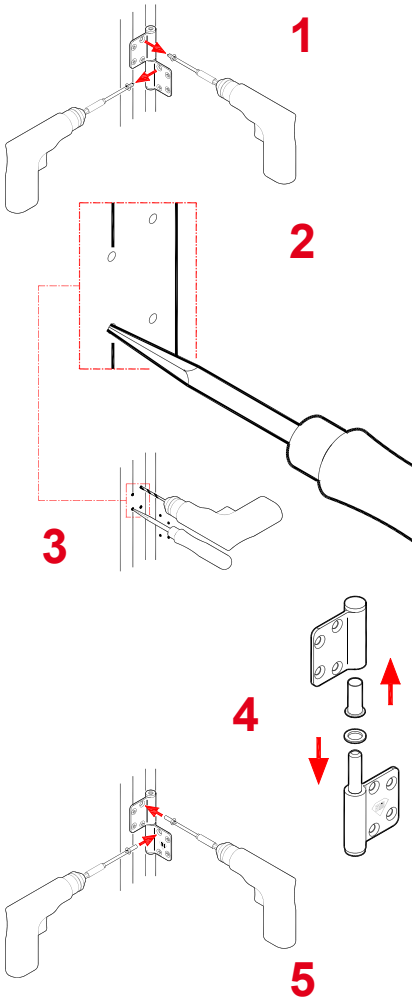
1. Replace the upper hinge and the lowermost top hinge of the door with four hinges first (1a).

2. Next, replace the hinge underneath .
Install a new pin supported hinge there.

3. Replace the lower hinge of the door last. Support the door against the floor with a suitable support before removing the lower hinge screws.

The replacing stages of hinges

Picture 6. Replacing hinges



1. Loosen the hinge screws.
   The bit of the screw driver must be long enough to prevent damage to the surface finish of the door leaf or door frame.
   Remove the hinge.

- **If the hinge is attached with sheet screws and the new hinge is supplied with M 5 thread forming screws, the drill holes in the door frame must be reamed with a Ø 4,5 mm drill.**

2. Align the holes in the moving hinge support in the door frame and the holes in the door's top plate with eg. a marking pin.

3. Ream the screw holes in the door and the door frame with a Ø 4,5 mm drill. The door frame support is solid.

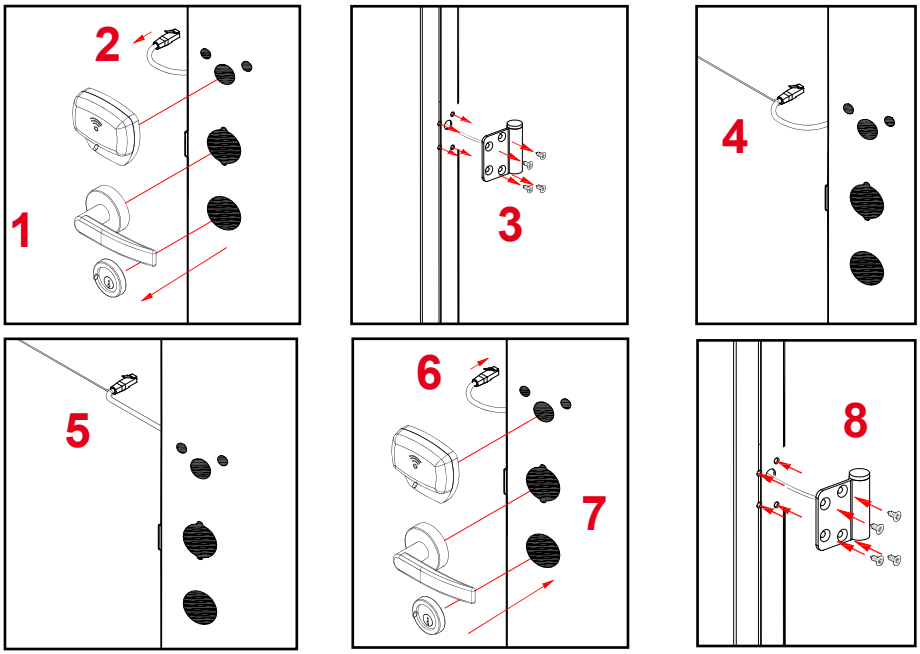
4. Make sure that the hinge bushing is installed in the female part of the hinge and the washer on the pin of the male part.

5. Replace the hinge with a new one.
   Make sure that you pause a few times while installing the M 5 thread forming screws, in order to prevent them from shearing and breaking.

- **Lastly adjust the load bearing hinge according to the instructions on page 4.**

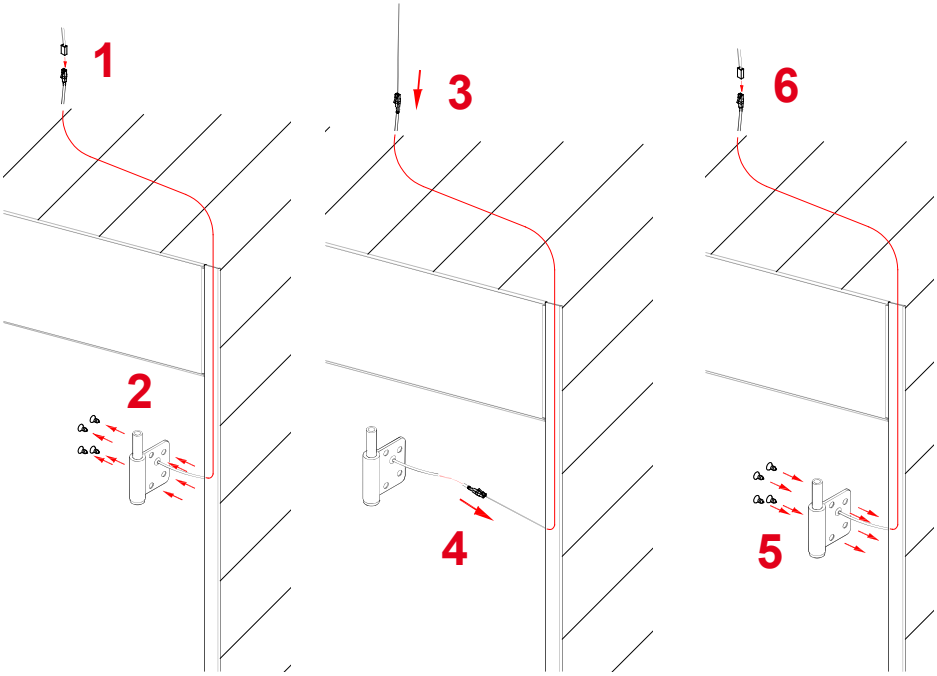
Replacing an e-hinge

Replacing a hinge leaf on a door



1. Remove the lock assembly according to the manufacturer’s instructions.
2. Remove the cable connector from the lock.
3. Remove the old hinge leaf from the door.
4. Connect a pull-cord to the cable connector of the replaced hinge.
   You can use the cord to pull the cable of the new hinge into the door.
5. Use the cord to pull the cable of the new hinge from inside the door, causing the connector to come out of the lock hole. Disconnect the cord when finished.
6. Connect the cable connector to the lock connector.
7. Put the lock assembly into place according to the manufacturer’s instructions.
8. Replace the removed hinge leaf with a new one.

Replacing a hinge leaf on the door frame



1. Disconnect the cable connector.
2. Take the old hinge leaf off the door frame.
3. Connect a pull-cord to the cable connector of the replaced hinge. You can use the cord to pull the cable of the new hinge into the door.
4. Use the cord to pull the new hinge cable through the frame, causing its connector to arrive at the connection point.
5. Replace the removed hinge leaf with a new one.
6. Connect the cable connector.

The general hinge refitting instructions (see pages 6 to 8) apply to the e-hinge as well.

28-01-2022

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