

5970S3-EL ELECTRICAL CISTERN W. HEIGHT-ADJUSTMENT NRF 6035974
5920-BVT ELECTRICAL CISTERN W. HEIGHT-ADJUSTMENT NRF 6035974
5970-MA MANUAL CISTERN W. HEIGHT-ADJUSTMENT NRF 6035975

INSTALLATION INSTRUCTIONS

BANO CISTERN

NO
EN
SE
DK



Bano's products meet the provisions in the EU safety requirements laid down in the Medical Devices Directive 93/42/EEC, class 1.



Bano provides a 3-year warranty against manufacturing defects: i.e. if such defects appear within 3 years of installation, customers can replace the defective item with a corresponding properties



AWARD FOR DESIGN EXCELLENCE
NORWEGIAN DESIGN COUNCIL

TABLE OF CONTENTS

	Page
Introduction	3
Compliance with the EU directive	3
Accessories	3
Technical data	4
Interface	5
Contents, loose parts	6
Preparation before assembling/Installing flexible WC-pipe	7
Fixing to wall	8-9
Adjustment in case of uneven floor	9
Silicone	10
Hooking up reinforced hose/Adjusting threaded rods for toilet fixing	11
Installing WC pipe, flush pipe, roller blind and cover	12-13
Installing crank and nut	13
Installing flush button	14
Installing WC bowl/ Installing the grab bars	15
Installing toilet seat/Operating the height adjustment	16
Bluetooth connection	17
Spare parts cistern	18

Introduction

Bano's height-adjustable cisterns can be adjusted either manually with a crank or electrically. This lightens the carer's work load because one person can quickly and easily adjust the height of the toilet to fit the users need. The height of the toilet can be adjusted 20cm.

The cistern is supplied either with a manual hand crank or with electrical height adjustment. With simple steps the height of the toilet and the WC grab bars can be adjusted. For bathrooms with external pipes an extension for the cistern must be used. For more information see Bano interface on www.bano.no

Electrical adjustment is operated by a button on the top of the cistern. For manual adjustment, use the accompanying crank.

Compliance with the EU directive

This product is CE branded.

See also:

EN 12182: 2012: Assistive products for persons with disability

EN 14055: 2011: WC and urinal flushing cisterns

EN 997: 2013: Sanatary appliances, washbasins

Accessories

With external pipes, please use an extension (5970-22/5970-23), either 50 mm or 100 mm.

Article numbers:

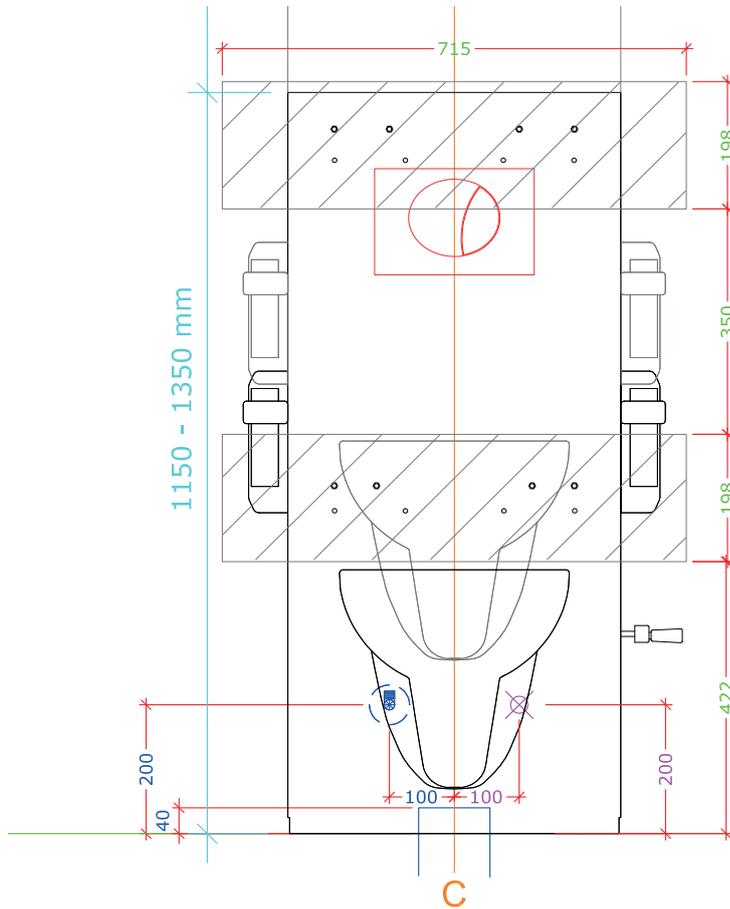
5965	WC 530
5975	WC 700
5985EC	WC-bowl 530 mm EasyClean
5995EC	WC-bowl 700 mm EasyClean
5920-BVT	Bano swivel toilet
5603	Grab bars WC 900 mm (35 in.)
5604	Grab bars WC 700 mm (28 in.)
5970-22	Extension 50 mm
5970-23	Extension 100 mm
5970-03	Toilet seat, white
5970-06	Toilet seat, grey

Technical data

Product name	:	CISTERN WITH MANUAL HEIGHT-ADJUSTMENT
Product number	:	5970-MA
Height-adjustment	:	20 cm
Materials	:	Main frame: Corrosion treated steel, EI galvanized Cover: ABS/PMMA plastic, colour code RAL 9016
Max weight load	:	Static load, toilet: 500 kg Static load, grab bars: 250 kg Maximum dynamic load, height-adjustment: 200 kg
Producer	:	BANO AS Email: post@bano.no Phone: +47 57 86 98 00 Web site: www.bano.no

Product name	:	CISTERN WITH ELECTRICAL HEIGHT-ADJUSTMENT
Product number	:	5970S3-EL og 5920-BVT Bano swivel toilet
Height-adjustment	:	20 cm
Materials	:	Main frame: Corrosion treated steel, EI galvanized Cover: ABS/ PMMA plastic, colour code RAL 9016
Max weight load	:	Static load, toilet: 500 kg Static load, grab bars: 250 kg Maximum dynamic load, height-adjustment: 300 kg
U In	:	230V ~ /50 Hz
I In	:	Max 3,9A
U Out	:	24V [±] , maks. 100VA IPX6
Int.	:	10%, maks. 2 min./18 min.
Producer	:	BANO AS Email: post@bano.no Phone: +47 57 86 98 00 Web site: www.bano.no

Interface



NOTE! PLUMBING

Water outlet on left side as shown in illustration.

Placement of stopvalve: because of moving parts when adjusting the cistern's height the stop valve must be placed exactly as is shown on the illustration.

Stopvalves are turned as shown on drawing.

Concerning water; finish with stop valve with 1/2" external threads (G15). (Threads pointing up)

Drainpipe in floor: Ø110 drainpipe without cuff is finished 40 mm above floor

NOTE! ELECTRICAL:

Electrical installation only for products with electrical height adjustment.

Electrical outlet on right side as shown in illustration. Electrical cable/ pipe is pulled 500 mm from wall and placed 200 mm above finished floor and 100 mm from the center of the cistern's drain.

Electrician connects IP44-box after the cistern is installed. (IP44-box not included)

NOTE! ELECTRICAL: This ONLY applies to cisterns with electric height-adjustment.

OBS! RIB:

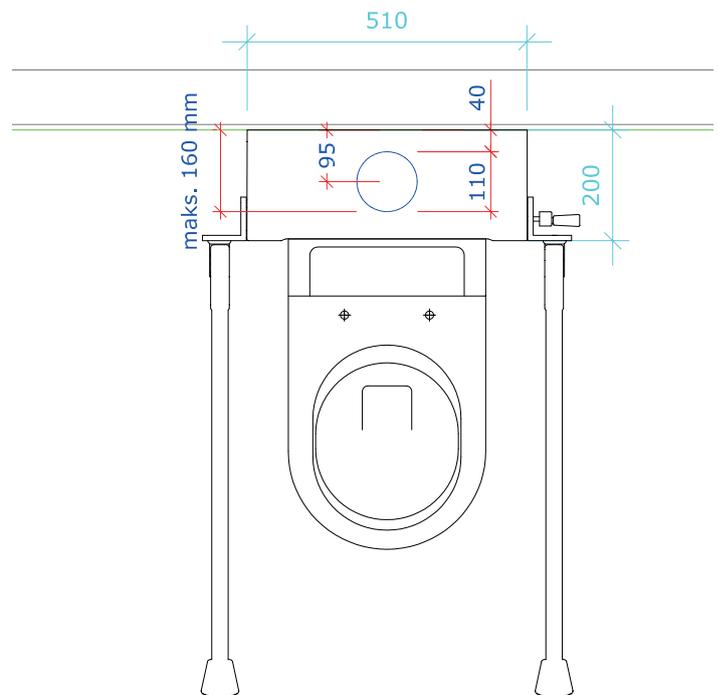
Loadtested untill 500 kg.

Min.: 48x198 board

Nailingstrips must be placed flush against wall material.

Nailing strips are indicated with shaded area.

For more information: www.bano.no

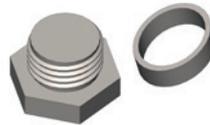


6/19Contents, loose parts

9750 White caps for mounting WC-bowl



9751 Nut and spacer sleeve (2 for EL, 1 for MA)



ISO 7380 M4x12



9716 Installation bolts WC-bowl



9794 Flexible drainage pipe for floor



9787 Flexible drainage pipe for wall



9700 Flush button, cistern



9753 Double jetcoupling (when the drain is in the floor)



9710-01 Clamp (when the drain is in the wall)



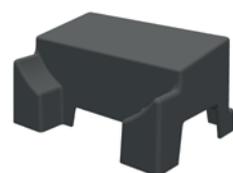
9755 Crank (only for 5970-MA)



9712 Flush pipe, cistern

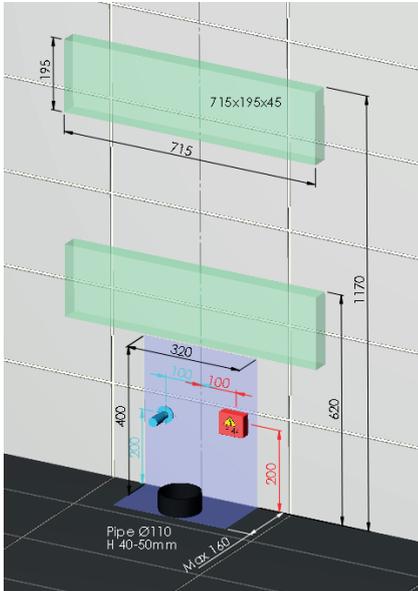


9847 Support for drain pipe wall (only for drain outlet in wall)

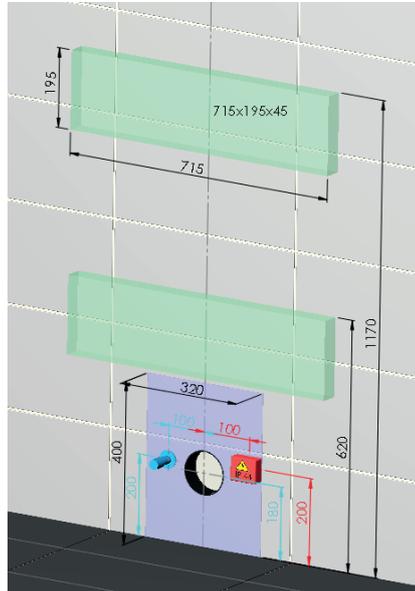


Preparation before assembling

Drain in the floor, reinforcements,
hidden pipes

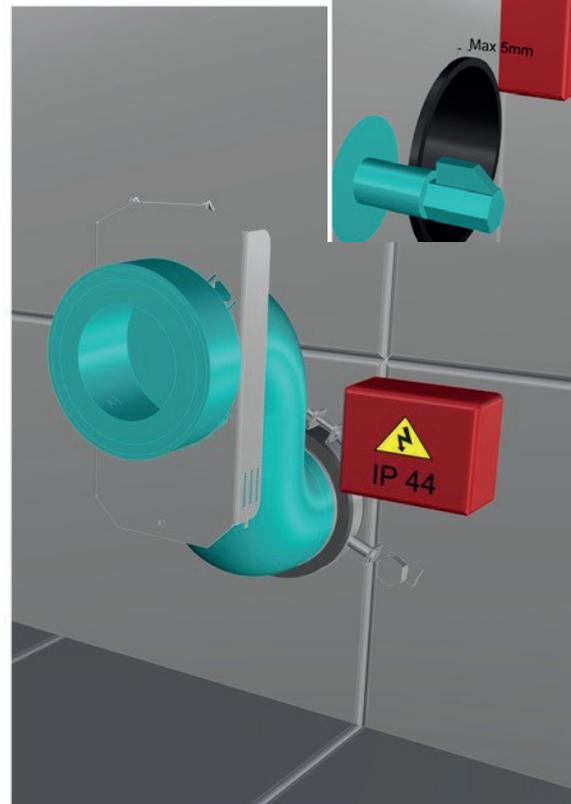
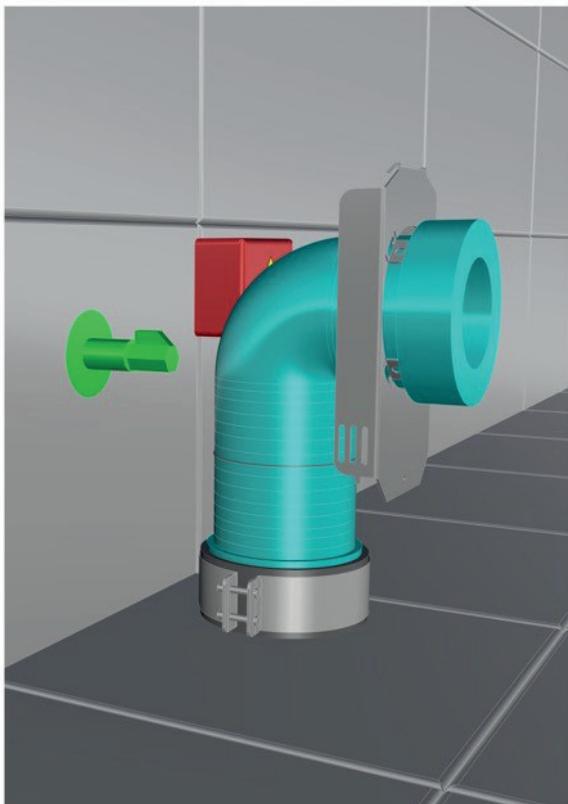


Drain in the floor, reinforcements,
hidden pipes



⚠ NB! Flush the pipes for 30 seconds before you install the cistern.

Installing flexible WC-pipe



Fixing to wall

Make sure never to perforate wet walls completely. Clean the holes after drilling. Make sure to use sealant approved for application on wet walls. See [illustration](#).

Please note that the product guarantee only applies when the wall and screws are dimensioned according to «Byggebransjens Våtromsnorm» and Bano interface for products mounted in Norway. For products mounted in other countries, please note that the product guarantee only applies when wall and screws are dimensioned according to national guidelines/regulations and Bano interface.

Tiled wooden wall:

Make sure never to perforate wet walls completely. Drill holes with a 10 mm drill bit through the tiles only. Clean and fill the hole with sealant approved for application on wet walls. See [illustration](#).

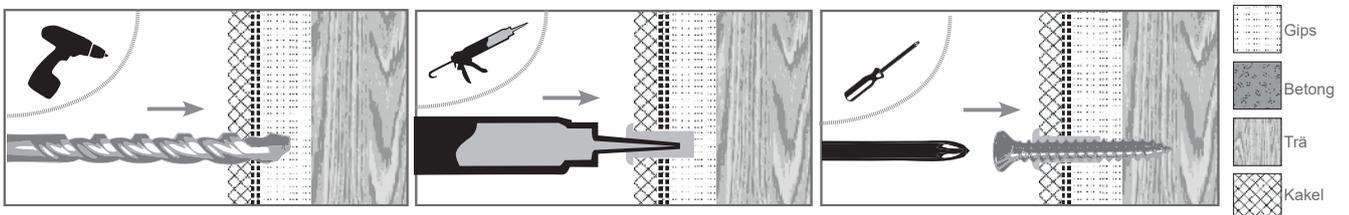
Tiled concrete wall:

Drill holes using a 12 mm drill bit through the tiles only. Switch to a 10 mm drill bit for further drilling through the concrete. Fill the hole with sealant, place a nylon plug in the hole and fill the plug with sealant. See [illustration](#).

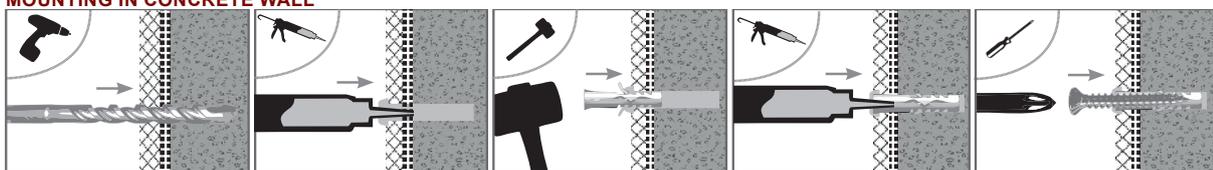
Other wall materials (bathroom boards, vinyl):

Make sure never to perforate wet walls completely. Drill holes which are dimensioned for said type of wall. Fill the hole with sealant, place a nylon plug in the hole and fill the plug with sealant. See [illustration](#).

MOUNTING IN WOOD WALL



MOUNTING IN CONCRETE WALL

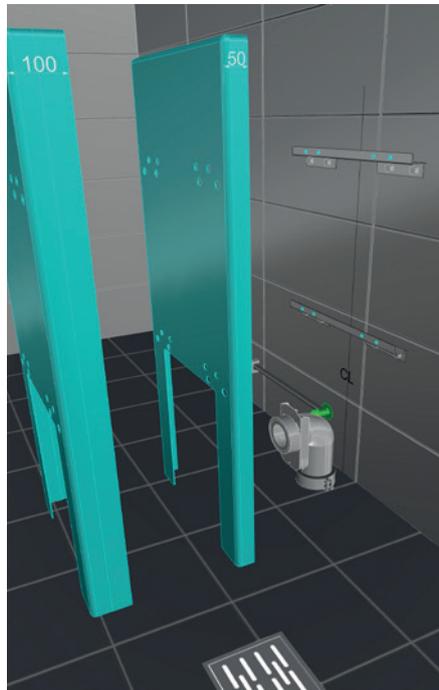


Step 1:

Lower the cistern to the bottom position and secure to the wall with appropriate screws for the wall. Bano recommends M8 A4 DIN571 Hex head wood screws. For concrete Bano recommends French wood screws M6 in combination with a nylon plug.

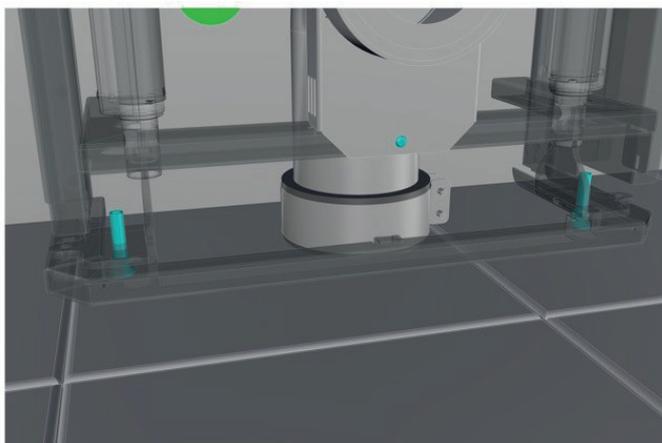
Step 2:

Raise the cistern to the top position and secure to the wall with appropriate screws for the wall. Bano recommends M8 A4 DIN571 Hex head wood screws.. For concrete Bano recommends French wood screws M6 in combination with a nylon plug.



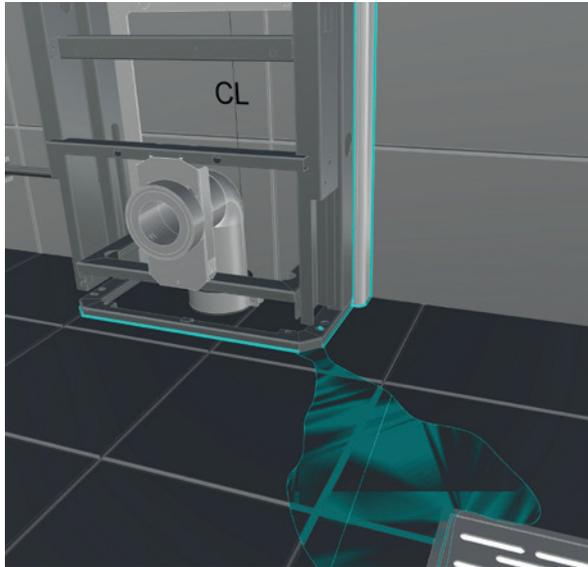
The cistern be adjusted up or down with the crank (MA) or by connecting it to the power grid (EL) in order to get to the mounting holes while installing.

Adjustment in case of uneven floor



If uneven floors (eg. slope towards the drain) cistern can be adjusted using the adjustment screws found on the bottom of each side. 5970-MA can be adjusted from above with a hexagon wrench, M5. 5970S3-EL can be adjusted from above by hand.

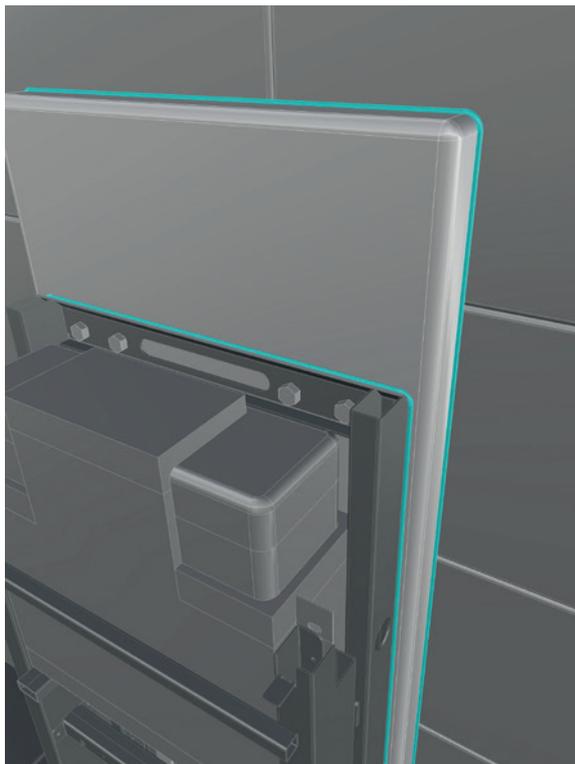
Silicone



Step 3:

The cistern frame must be waterproof against the floor and wall or the extension for the cistern.

NB! As a warning for any leakage in the cistern, there must be a 5 cm long opening under the frame in the front corner towards the drain. (See picture)

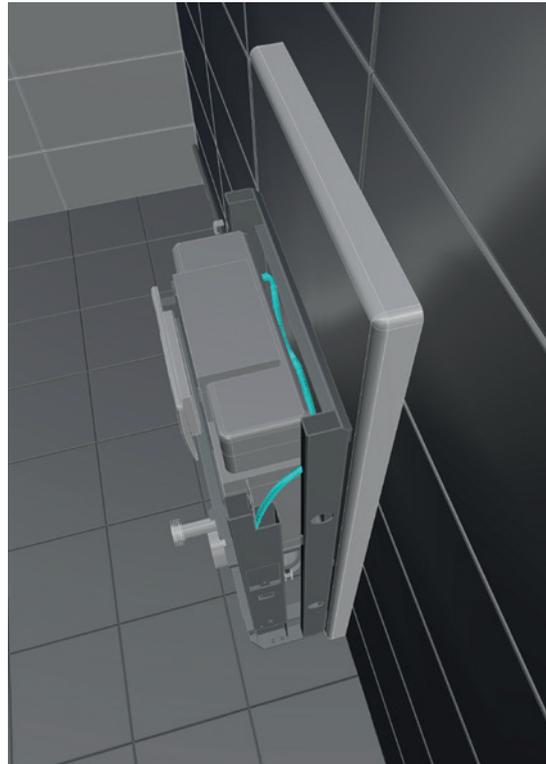
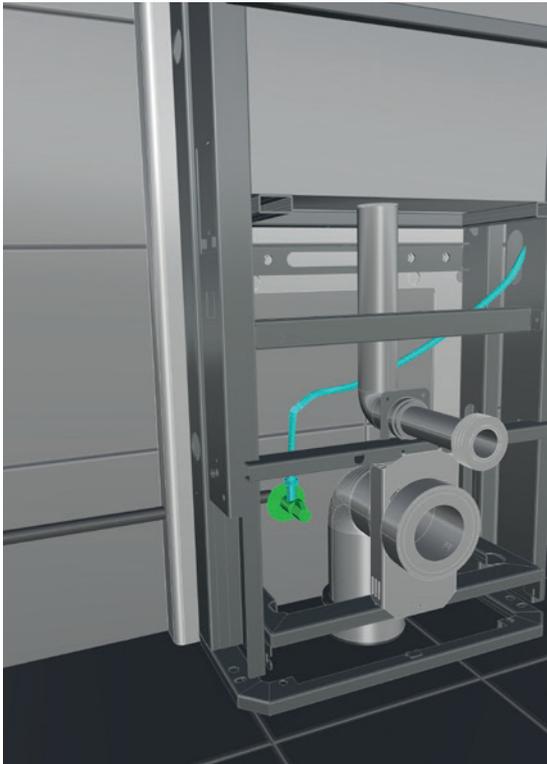


Silicone must be applied ALL the way around the cistern frame – against the wall or the extension module

If the extension module is mounted between the cistern frame and the wall, this must also be applied with silicone all around. (Remember to remove protective plastic on the extension module before applying silicone.)

The side- and front covers are mounted when the silicone is dry.

Hooking up reinforced hose

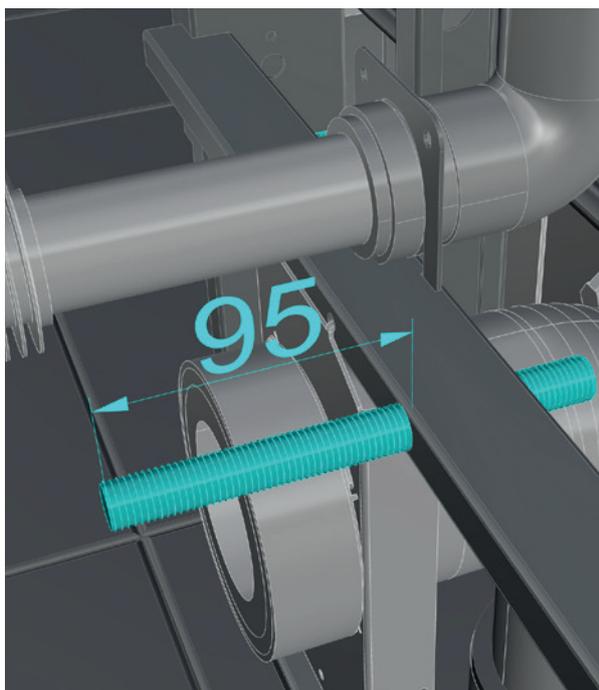


⚠ NB! Make sure the valves are open. Both inside the cistern and next to the drain pipe.

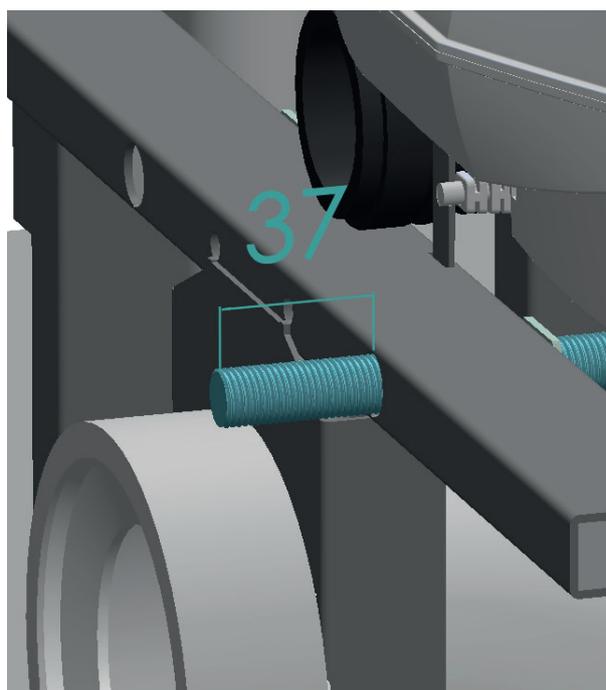
Adjusting threaded rods for toilet fixing

⚠ NB! On the MA-model you have to make sure the shaft stays clear of the nuts and threaded rods.

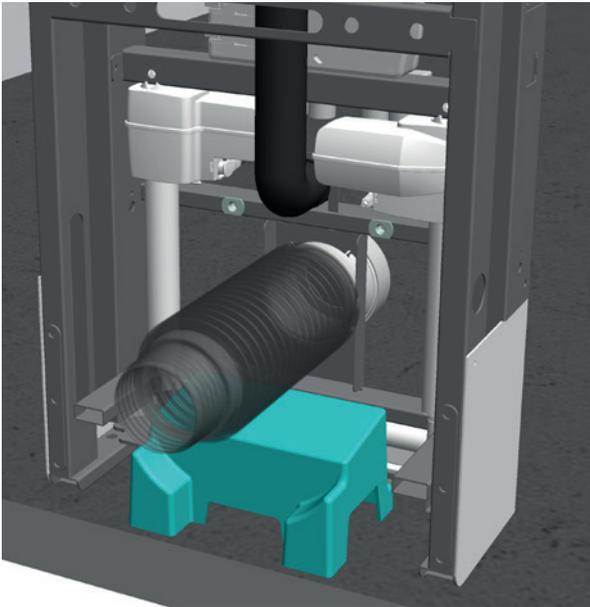
5970-MA and 5970S3-EL



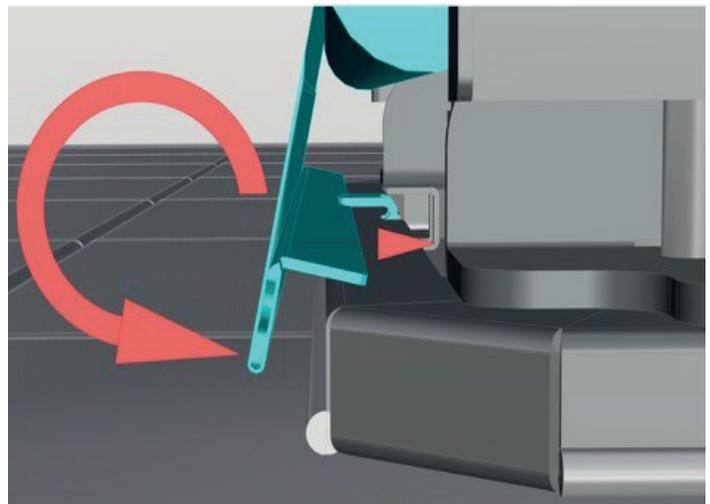
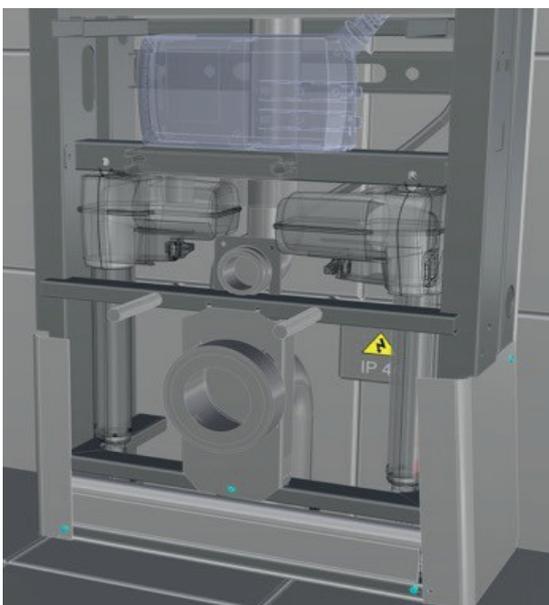
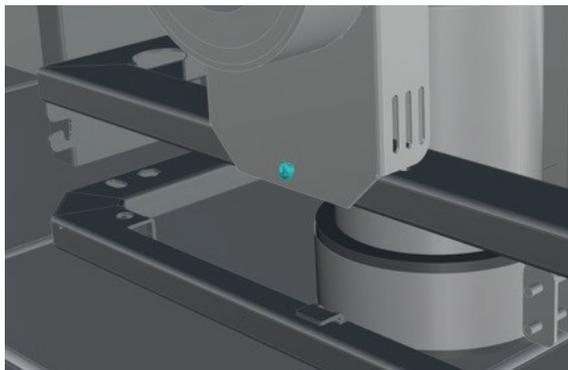
5920-BVT Bano swivel toilet

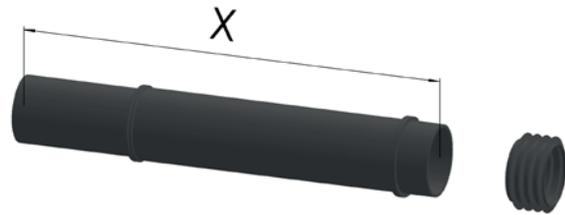
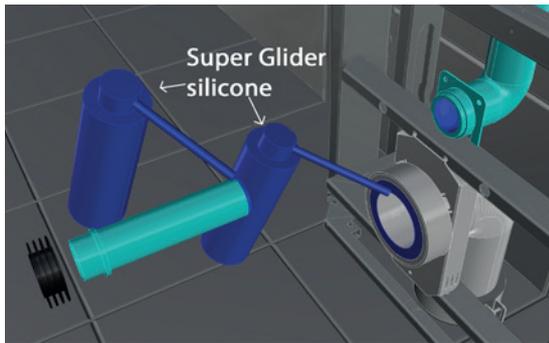


Installing WC pipe, flush pipe, roller blind and cover



⚠ NOTE! For drain outlet in wall, the support is placed under the flexible drain hose.





NB! Cut length flush pipe:

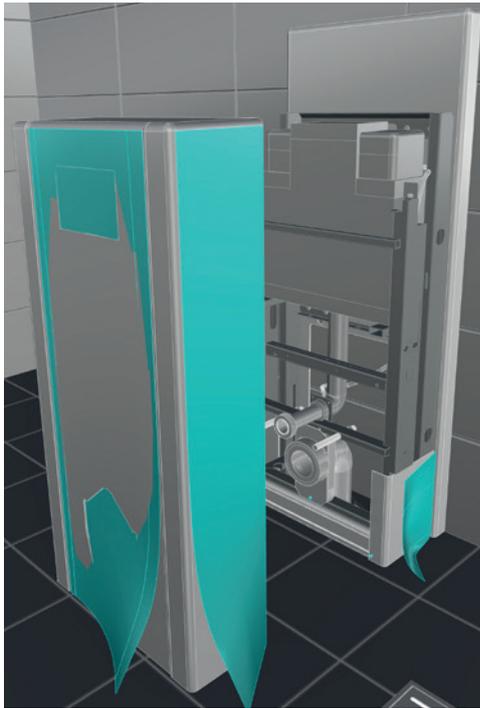
5965 Bano toilet bowl 530mm: 170mm

5975 Bano toilet bowl 700mm: 330mm

5985EC Bano easy clean toilet bowl: 110mm

5995EC Bano easy clean toilet bowl: 260mm

5920-BVT Bano swivel toilet: 260mm



- ⚠ **NOTE! 5920-BVT Bano swivel toilet:** Before installing the cistern cover, the cistern must be connected to Bluetooth. For Bluetooth connection see page 17.

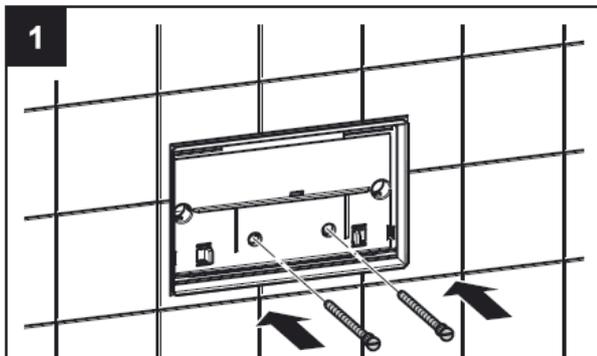
Installing crank and nut



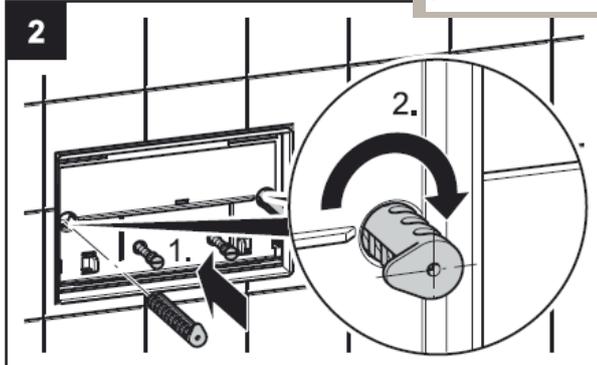
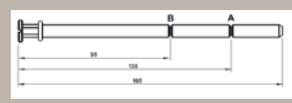
- ⚠ **NB!** It is important that the spacer sleeve is mounted together with the nut.

- ⚠ **NB!** The EL-model does not have a crank, but it has two nuts for each side of the cistern.

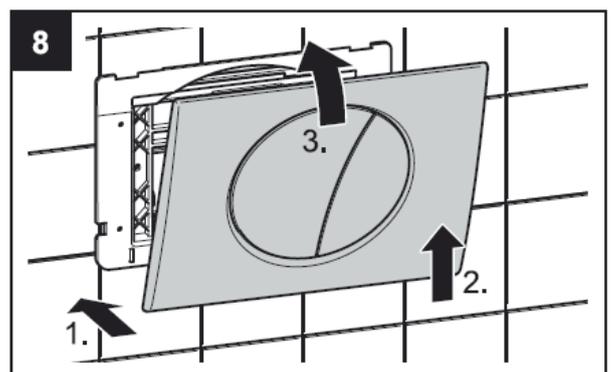
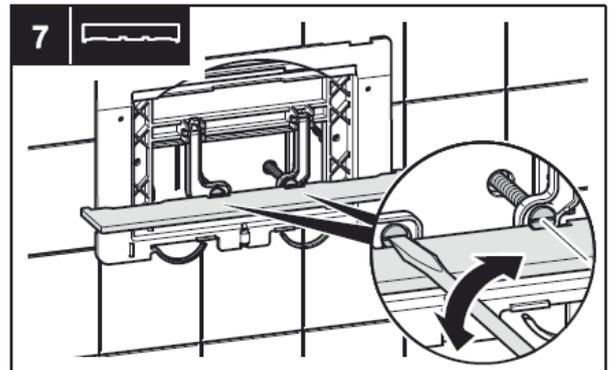
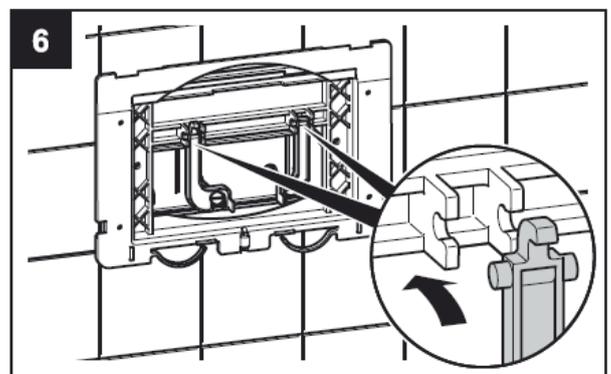
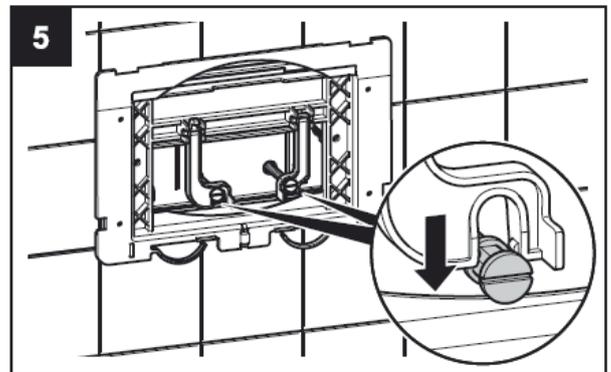
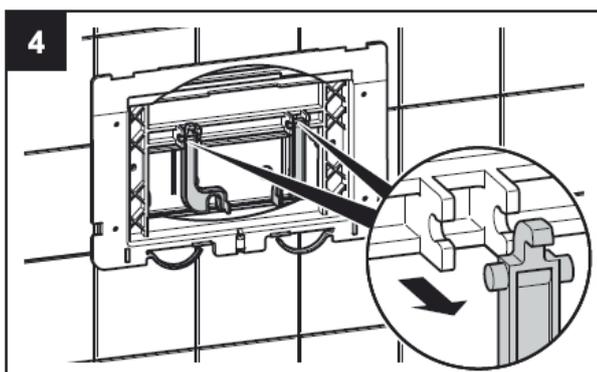
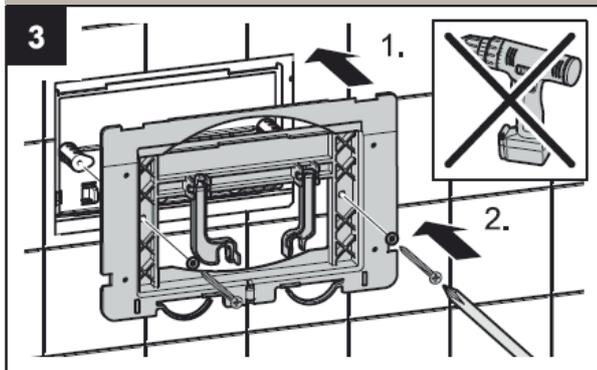
Installing flush button



Break the green and white adjustment pin by the 95mm mark (B)



Cut the left pin in the middle

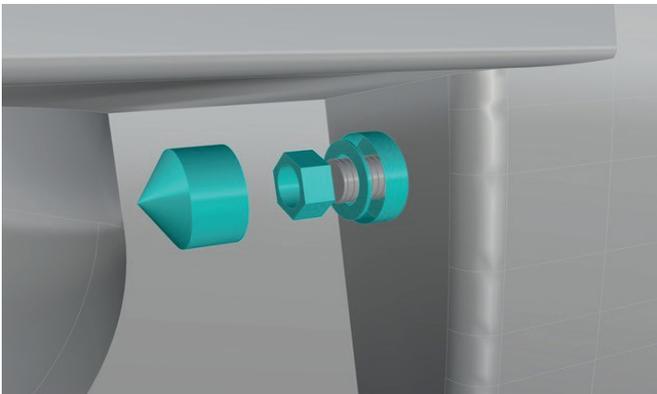


Installing WC-bowl

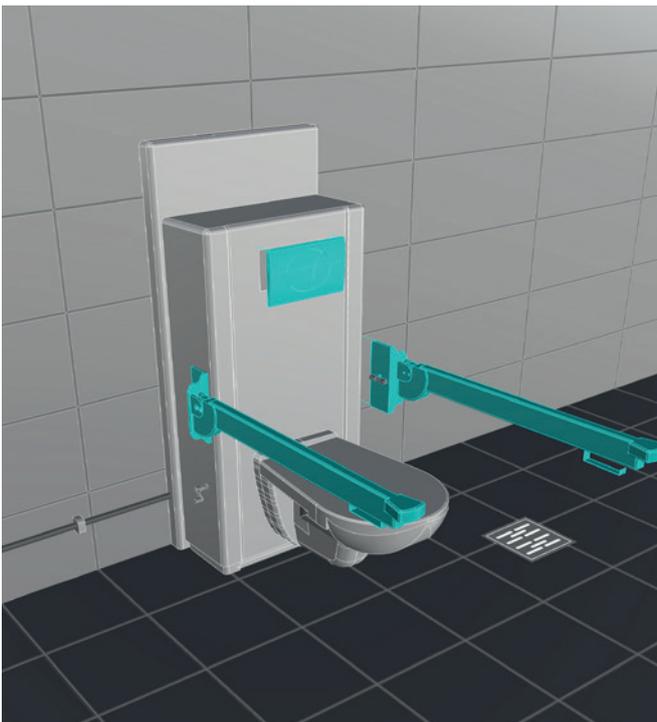


It is recommended to have the cistern in its highest position when mounting the WC-bowl

⚠ NOTE! Separate mounting instruction for installation of 5920-BVT Bano swivel toilet

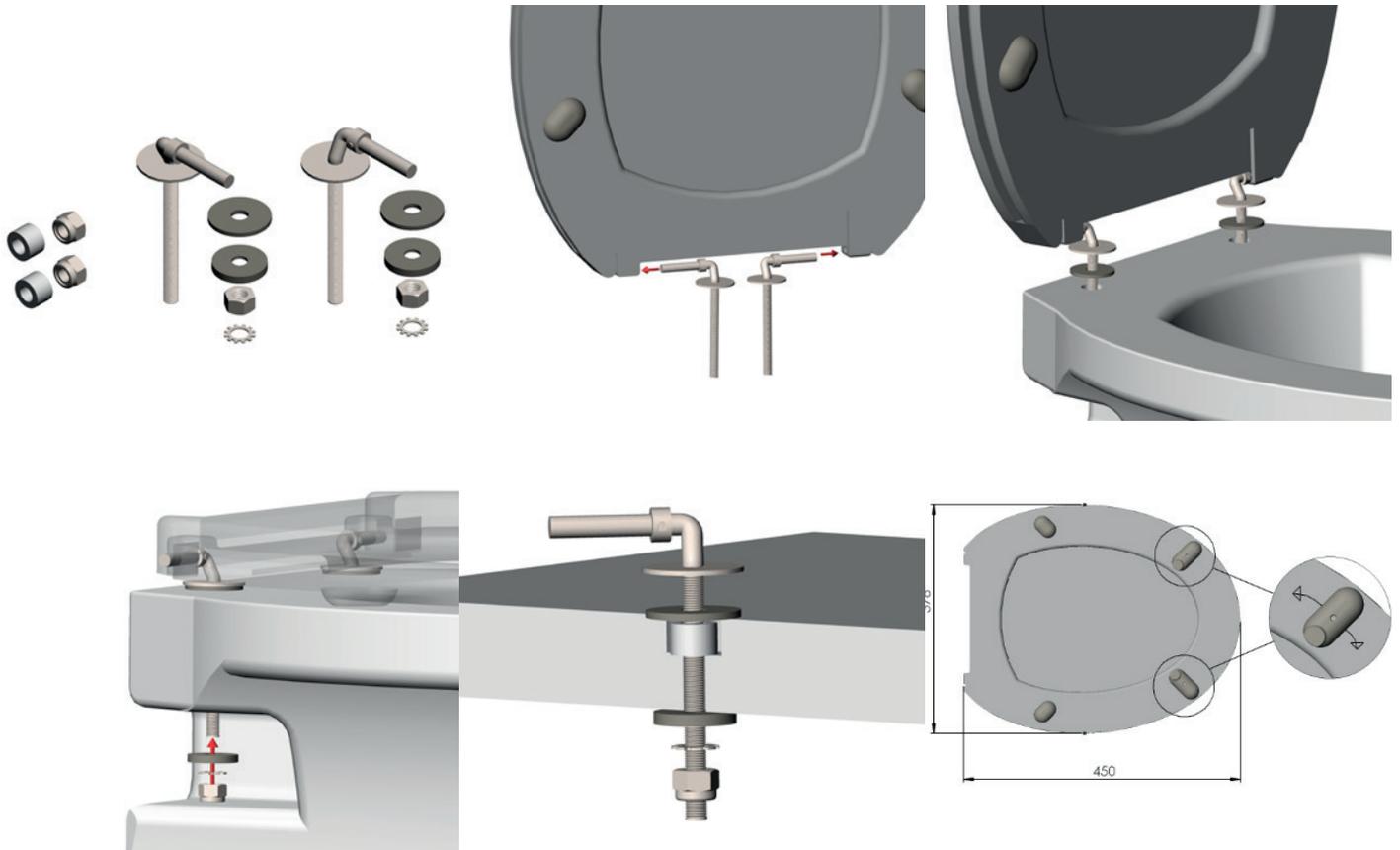


Installing the grab bars



Put them in their sockets and attach them with the cranks (push and twist to tighten)

Installing the toilet seat



⚠ NB! Supplied locknut must be used in order to prevent the toilet seat from loosening

Operating the height adjustment

5970S3-EL: The height on the WC is adjusted by using the button on the top of the cistern. The cistern is raised by pushing the “up”-button and lowered by using the “down”-button.

The cistern stops as soon as the button is released.

5970-MA: When using the manual height-adjustment the crank installed on the side of the cistern is used. This crank can be mounted on both sides of the cistern. The crank must be pushed in before it can be used. The crank can easily be removed and replaced with a nut.

(Contact Bano for more information)

Bluetooth connection

⚠ NB! Applies to 5920-BVT Bano swivel toilet only.

The cistern must be connected to power.

The toilet bowl must be placed close to the cistern.



Push the UP- and DOWN-buttons on the left side + the UP button on the right side for about 5 seconds. Let go of the buttons when you hear the beeping.

You will now hear slow beeping for a few seconds before the beeping switches to fast beeping.



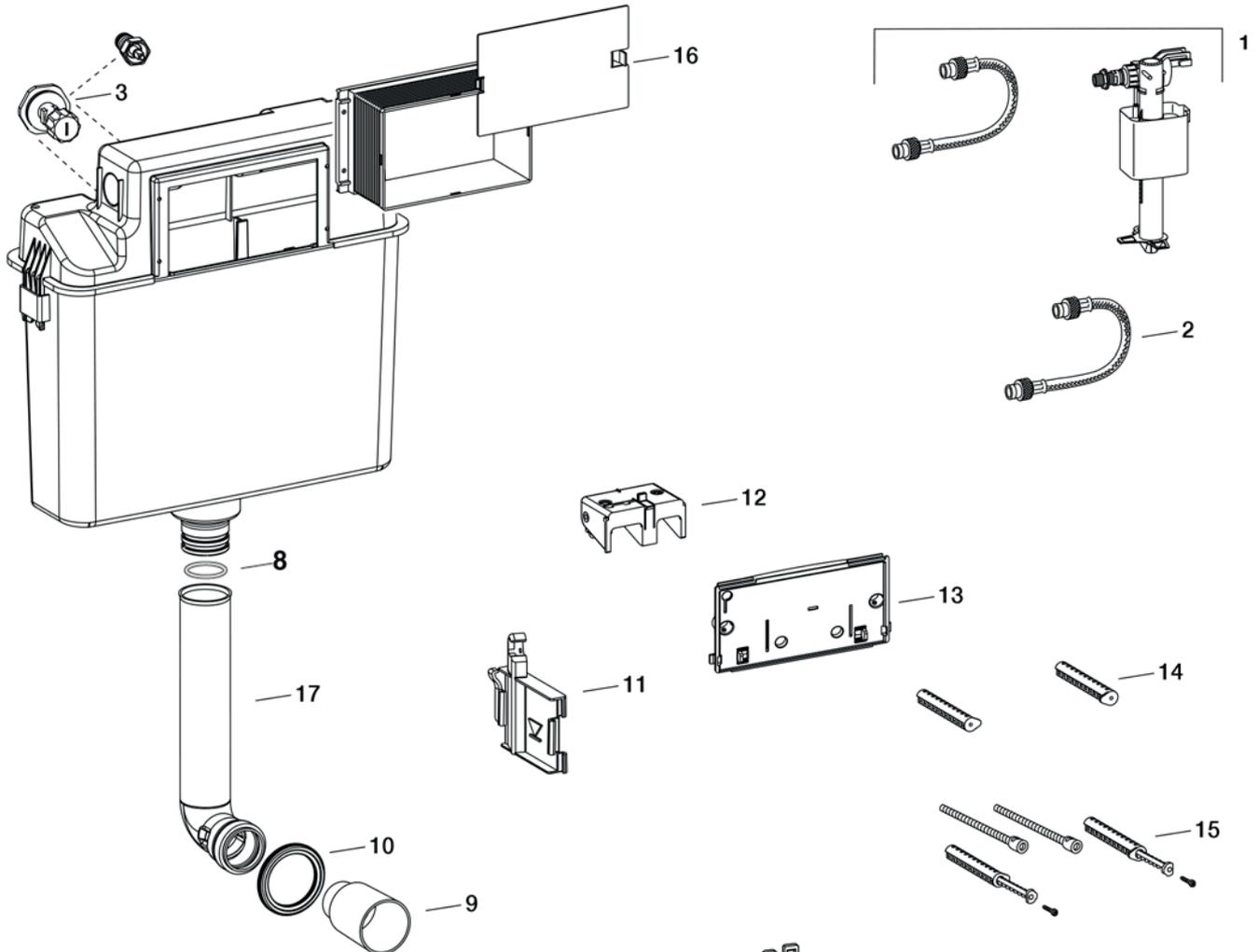
When you hear the fast beeping, push the UP-button on the left side to confirm the connection.



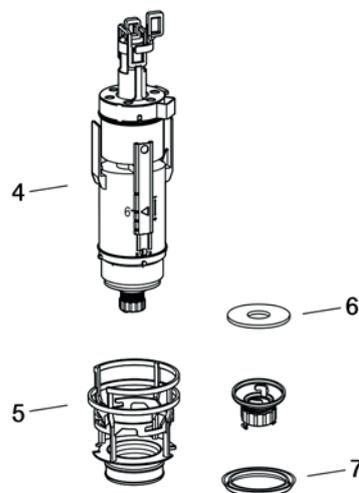
Check if the connection is OK by raising and lowering the cistern. If you can't get the connection right the first time, you can try several times.

Reservedeler

Controll Box Cistern Sanicontrol 6l start/stop + dual - flush ech (from 01-2010) Type A31.



1	9726-05 Inlet valve and flexible hose
2	9731-02 Flexible hose R 3/8", length: 250mm
3	9717-02 Shut off valve 1/2"
4	9713-02 Flushing valve, complete
5	9741 Basket holder for flushing valve
6	9733-01 Gasket for flushing valve
7	9741-01 Gasket for basket holder
8	9743-01 Ring seal for 90° flush pipe
9	9742 Cover for flush pipe
10	9742-01 Gasket for flush pipe, Ø 44mm
11	9732 Inlet valve bracket
12	9735 Bearing block for preassure rod
13	9734 Mounting panel
14	9701-01 Distance screws for flush button
15	9703-02 Extension set for spacer bolts
16	9704-02 Service tunnel with lid
17	9743-01 90° flush pipe



Thank you for taking the time to read this instruction thoroughly - it's a great investment!

For the latest version see our website.