Outlet Valve - with 305 Valve Cartridge

NOTE: The Valve must be installed in accordance with AS/NZS 3500.1

There are 3 ways to configure your Quietflow Outlet Valve to set the correct flush volumes:

1. Match the Settings

If you are replacing an existing Quietflow Outlet Valve then all you have to do is match the setting of your new Valve to the old one.

2. Quick Reference Chart

If you are replacing an Outlet Valve in a Caroma, Fowler or Stylus toilet and you know the name of the suite then check the Quick Reference Chart. If the name of your suite is listed then all you have to do is configure the valve as per the settings in the table. We also recommend you check the Flush Volumes for both the Half and Full Flush by following the procedure on page 7.

3. Measured Flush Volume

If you are replacing an Outlet Valve in a Caroma, Fowler or Stylus toilet and the name of your suite is not listed then you will have to configure the valve by measuring the Flush Volumes. This method can also be used for other brand toilet suites where the valve is suitable for installation.

Quick Reference Chart

FOWLER	Flush Volume	Cistern Type	Tail Length	Button Type	Valve Full Flush Setting	Valve Half Flush Setting	Recommended Water Level	Overflow Tube Setting
Consort	4.5/3L	CS*	long	Forward of Center	13	22	240	265
Consort	6/3L	CS*	long	Forward of Center	1	21	245	265
Newport	4.5/3L	CC*	short	On Center	17	26	240	265
Newport	6/3L	CC*	short	On Center	1	24	240	265
Newport Cube	4.5/3L	CC*	short	On Center	19	26	240	265
Newport Cube	6/3L	CC*	short	On Center	7	26	240	265
Regent	4.5/3L	CC*	short	Forward of Center	20	26	240	265
Regent	6/3L	CC*	short	Forward of Center	9	26	240	265
Seido	4.5/3L	CC*	short	On Center	20	27	240	265

stylus	Flush Volume	Cistern Type	Tail Length	Button Type	Valve Full Flush Setting	Valve Half Flush Setting	Recommended Water Level	Overflow Tube Setting
Venecia	4.5/3L	CC*	short	On Center	20	27	240	265
Venecia	6/3L	CC*	short	On Center	9	27	240	265

CC* = Close Coupled Cistern
CS* = Connector Cistern

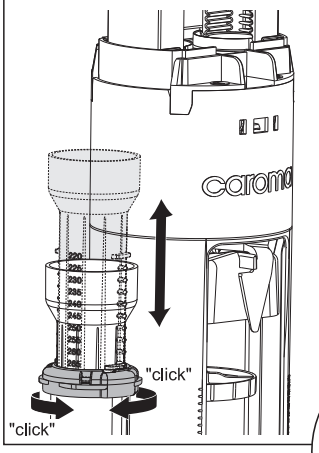
QUIET FLOW

Quick Reference Chart

Caroma	Flush Volume	Cistern Type	Tail Length	Button Type	Valve Full Flush Setting	Valve Half Flush Setting	Recommended Water Level	Overflow Tube Setting
Altisse	4.5/3L	CC*/CS*	short/long	On Centre	17	25	235	265
Altisse	6/3L	CC*/CS*	short/long	On Centre	4	25	240	265
Caravelle 2000	4.5/3L	CC*	short	Forward of Centre	17	25	240	265
Caravelle 2000	6/3L	CC*	short	Forward of Centre	4	25	240	265
Caroma Cube	4.5/3L	CC*	short	On Centre	19	26	235	265
Elba	4.5/3L	CC*/CS*	short/long	On Centre	22	28	245	265
Elba	6/3L	CC*/CS*	long	On Centre	16	28	245	265
Geo	4.5/3L	CC*	short	Forward of Centre	11	21	240	265
Geo	6/3L	CC*	short	Forward of Centre	1	21	240	265
Harmony	4.5/3L	CC*/CS*	short/long	On Centre	12	22	240	265
Harmony	6/3L	CC*/CS*	short/long	On Centre	1	23	250	275
Leda	4.5/3L	CC*	short	Forward of Centre	16	24	240	265
Leda	6/3L	CC*	short	Forward of Centre	3	24	240	265
Milan	4.5/3L	CC*	short	Forward of Centre	18	26	240	265
Milan	6/3L	CC*	short	Forward of Centre	6	26	240	265
Opal	4.5/3L	CC*	short	Forward of Centre	17	25	240	265
Opal	6/3L	CC*	short	Forward of Centre	5	25	240	265
Opal II	4.5/3L	CC*	short	On Centre	13	22	240	265
Profile	4.5/3L	CC*	short	On Centre	11	21	235	255
Profile - with Integrated Hand Basin	4.5/3L	CC*	short	Rear of Centre	11	23	240	265
Regal	4.5/3L	CC*	short	Forward of Centre	19	26	240	265
Regal	6/3L	CS*	long	Forward of Centre	6	24	240	265
Regal II	4.5/3L	CC*	short	Forward of Centre	18	24	240	265
Sovereign 2000	4.5/3L	CS*	long	Forward of Centre	17	25	240	265
Sovereign 2000	6/3L	CS*	long	Forward of Centre	4	25	240	265
Sovereign Retro	4.5/3L	CS*	long	Forward of Centre	21	25	225	250
Sovereign Retro	6/3L	CS*	long	Forward of Centre	13	25	225	250
Sovereign Retro	9/4.5L	CS*	long	Forward of Centre	3	23	235	255
Vand	4.5/3L	CC*/CS*	short/long	On Centre	19	26	240	265
Vand	6/3L	CC*/CS*	short/long	On Centre	8	26	240	265
Vintage	6/3L	CS*	long	Forward of Centre	3	26	240	265
Monarch	9/4.5L	CC*	long	Angled Forward	0	22	245	265
Monarch	6/3L	CC*	long	Angled Forward	15	27	245	265
Viceroy	9/4.5L	CC*	long	Angled Forward	0	22	240	265
Viceroy	6/3L	CC*	long	Angled Forward	15	26	240	265
Sovereign	9/4.5L	CC*	long	Angled Forward	0	21	242	265
Sovereign	6/3L	CC*	long	Angled Forward	14	27	242	265

CC* = Close Coupled Cistern
CS* = Connector Cistern

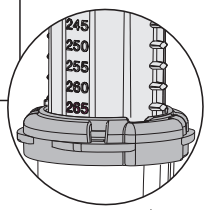
Overflow Tube



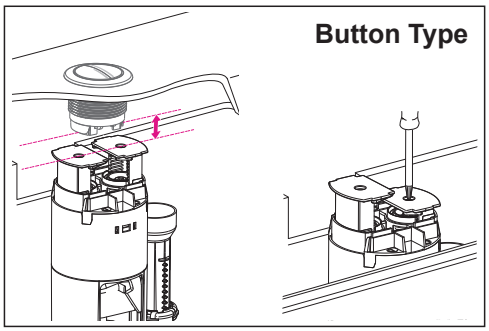
Release the Locking Clip on the Overflow Tube by rotating anti-clockwise (“click”) and pull Overflow Tube upwards, exposing a series of numbers on its side.

When the required Overflow Height listed in the Quick Reference Chart is visible rotate the Locking Clip clockwise (“click”) to secure its position.

Note: It is recommended for a bottom entry inlet that the Overflow Height is set between 20 - 25mm above water level. For applications using a side entry inlet (Unifil Inlet Valve) the maximum allowable Overflow Height is 265mm.



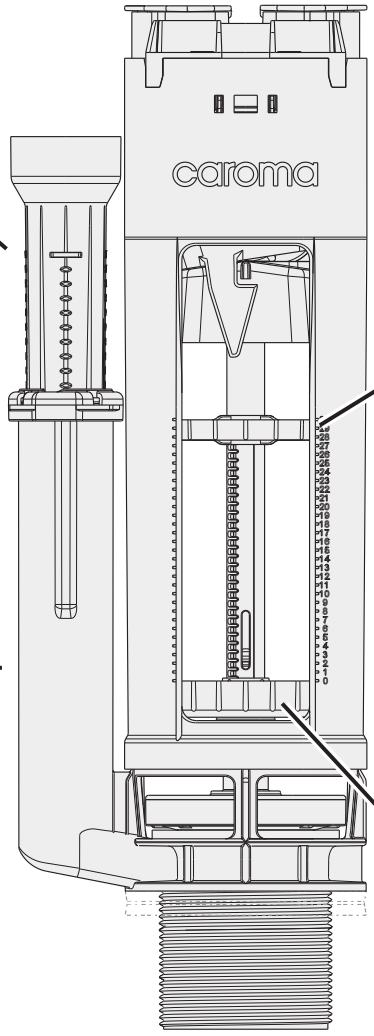
Button Type



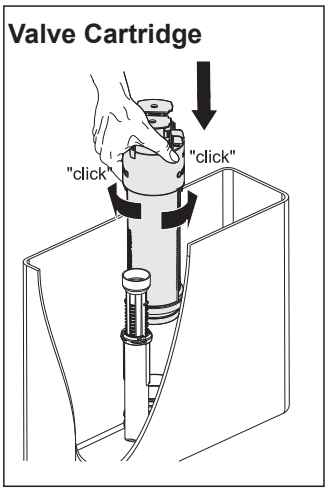
Referring to the Button Type listed in the Quick Reference Chart (On Center, Forward of Center & Rear of Center) attach the Button Caps as required and adjust each Button Platform using a philips head screw driver.

IMPORTANT The Button Platforms on the valve should be adjusted so there is zero gap between the Button Strikers in the lid (i.e. just touching).

Note: The included forward/rear of center button caps allows for much greater offset while the button extensions allow for greater tank height (re pg 4).



Valve Cartridge

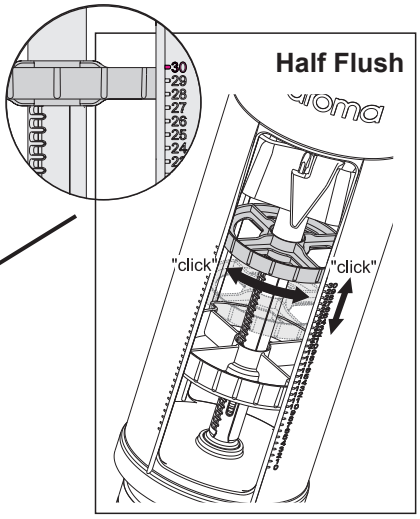


The Valve Cartridge can be detached from the base by carefully rotating it (“click”) anti-clockwise and lifting.

When replacing the Valve Cartridge ensure it is locked into the Valve Base by rotating (“Click”) clockwise.

Note: The Valve Cartridge can be locked into the base in 15° increments. Once the valve is installed into a cistern it is **important** to ensure the correct position is selected so the buttons are square to the front with the Half Flush Button on the left hand-side.
The following symbols can be found on the top of the valve cartridge: = Half Flush = Full Flush

Half Flush

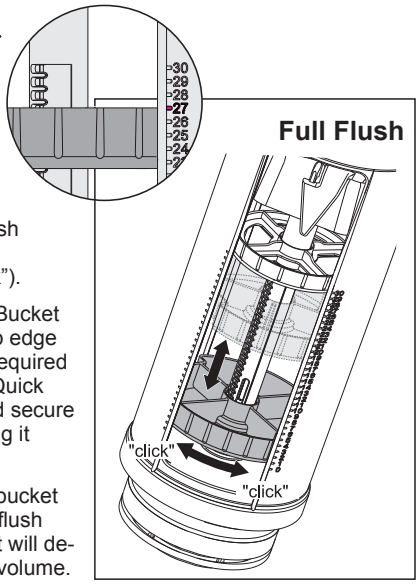


Release the Half Flush Adjusting Nut by rotating anti-clockwise (“click”).

Slide the Half Flush Adjusting Nut up/down until the top edge corresponds to the required setting listed in the Quick Reference Chart and secure its position by rotating clockwise (“click”).

Note: Lowering the Adjustment Nut will increase the half flush volume and raising it will decrease the half flush volume.

Full Flush

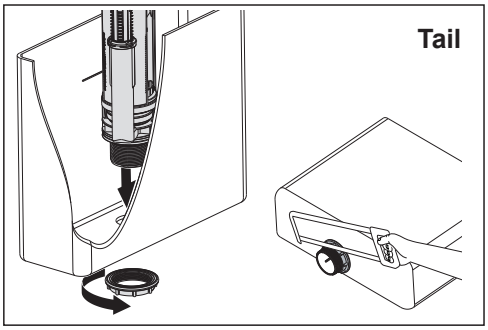


Release the Full Flush Bucket by rotating anti-clockwise (“click”).

Slide the Full Flush Bucket up/down until the top edge corresponds to the required setting listed in the Quick Reference Chart and secure its position by rotating it clockwise (“click”).

Note: Lowering the bucket will increase the full flush volume and raising it will decrease the full flush volume.

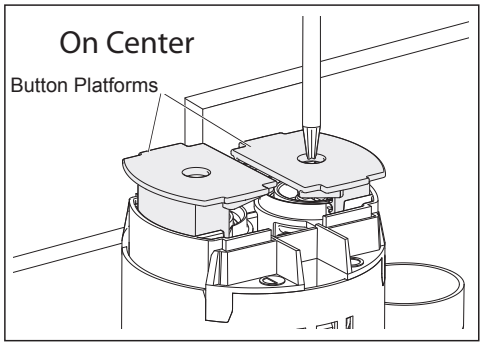
Tail



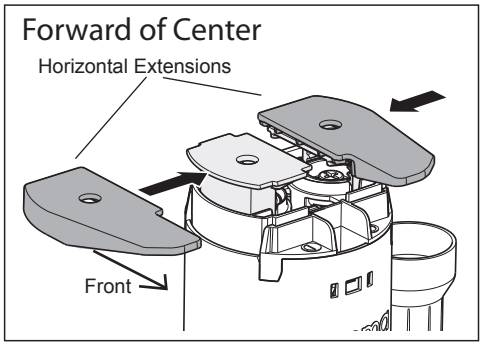
Position the Outlet Valve so the Overflow Tube is in an unobstructed position (clearing cistern walls), Firmly secure with tail nut.

As supplied, the valve has a long tail, hence where the Tail Length is listed as “short” in the Quick Reference Chart the excess Threaded Tail length must be carefully cut off using the bottom edge of the Tail Nut as a guide.

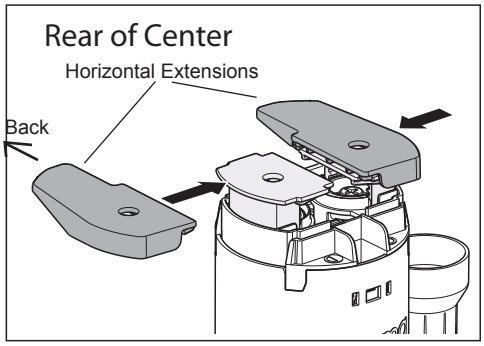
Button Platform Extensions & Forward/Rear of Center Button Caps Options



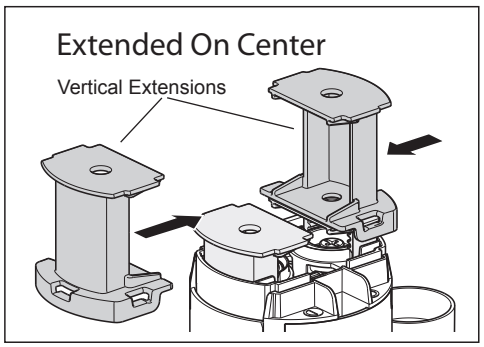
Remove cistern lid. Adjust both Button Platforms up slightly using a philips head screw driver to allow for the necessary attachments to be fitted if required.



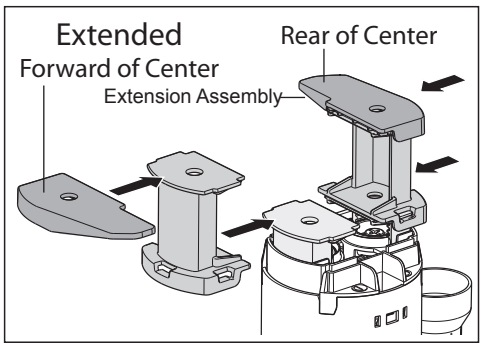
Clip the Horizontal Extensions (protruding towards the front) onto the Button Platforms by sliding them towards the center.



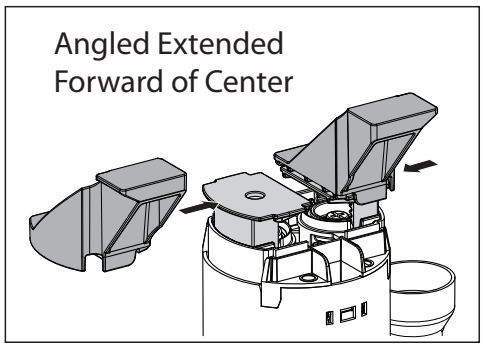
Clip the Horizontal Extensions (protruding towards the back) onto the Button Platforms by sliding them towards the center.
NOTE: Some trimming may be required where interference occurs with the back of the tank.



Clip the Vertical Extensions onto the Button Platforms by sliding them towards the center.

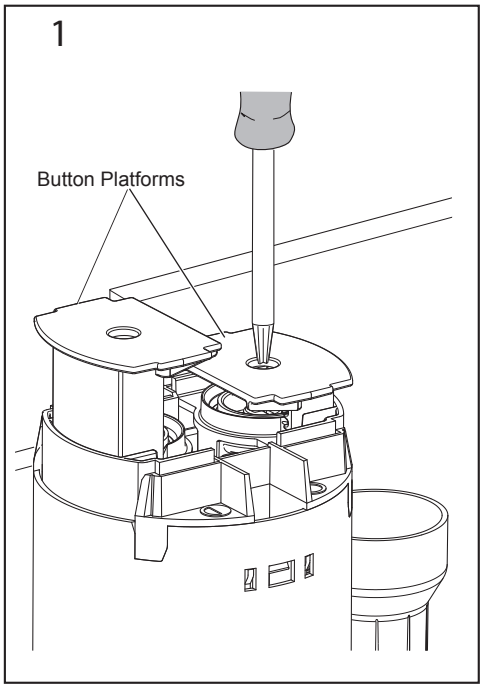


Clip the Horizontal Extensions onto the Vertical Extensions, then clip the whole extension assembly onto the Button Platforms by sliding them towards the center with the Horizontal Extensions protruding towards the front.

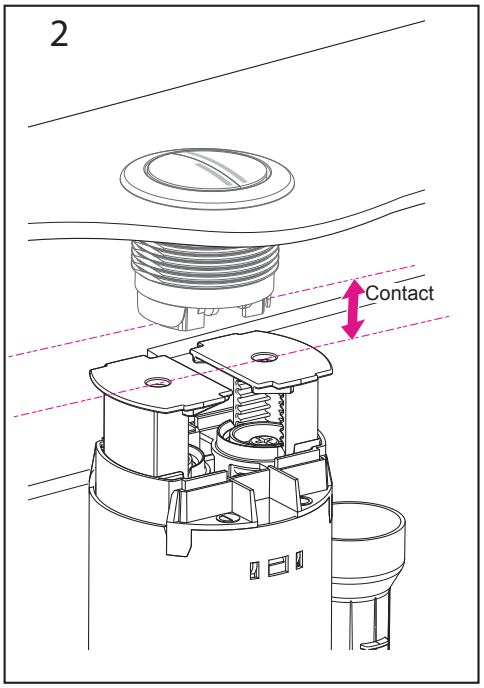


Clip the Angled Extensions (protruding towards the front) onto the Button Platforms by sliding them towards the center.

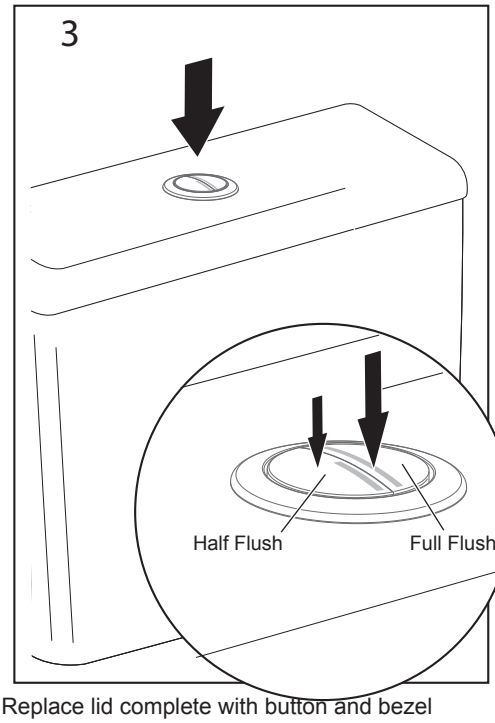
Button Platform Adjustment



Remove cistern lid. Adjust each Button Platform using a philips head screw driver.



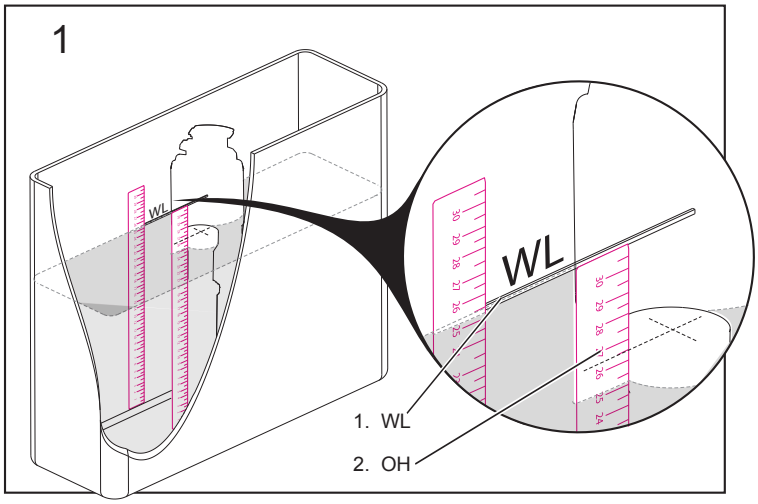
The button strikers should just contact the Button Platforms when lid is on.



Replace lid complete with button and bezel assembly and test both buttons to ensure they activate the outlet valve.
NOTE: The Half Flush Button must be on the left hand-side.

Measured Flush Volume - Detailed Valve Installation Instructions

1

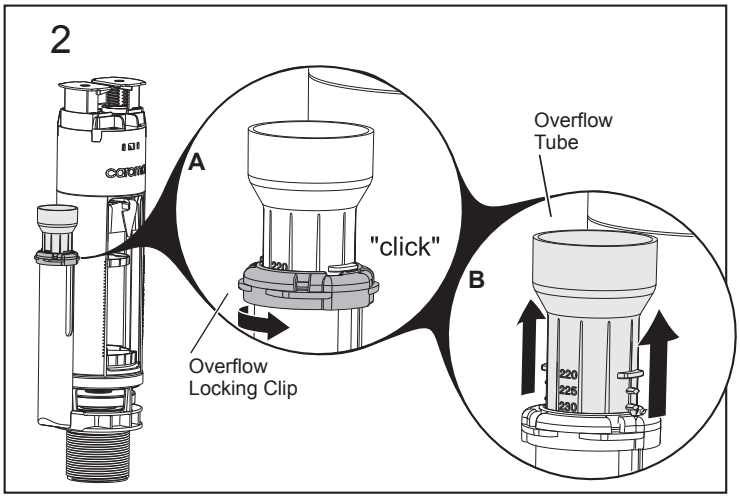


Measure existing Water Level and Overflow Height of the old valve.
Set the Overflow height on the new valve to which ever is the lowest:

1. The Water Level (WL) + 25mm OR
2. The existing Overflow Height (OH).

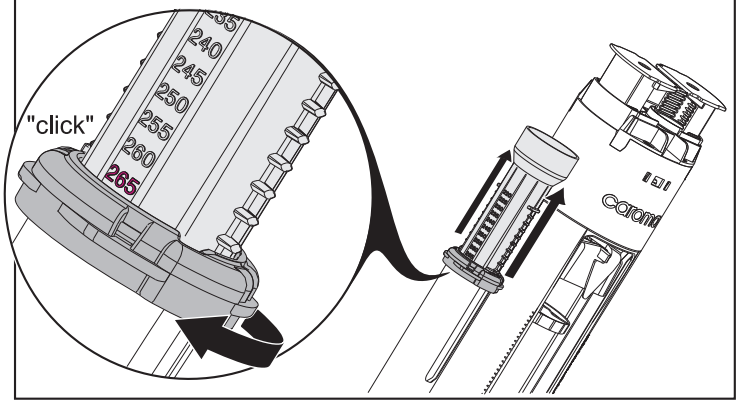
E.g.. If the existing OH was 265mm and the WL was 255mm (255 +25= 280mm), then use the existing OH.

2



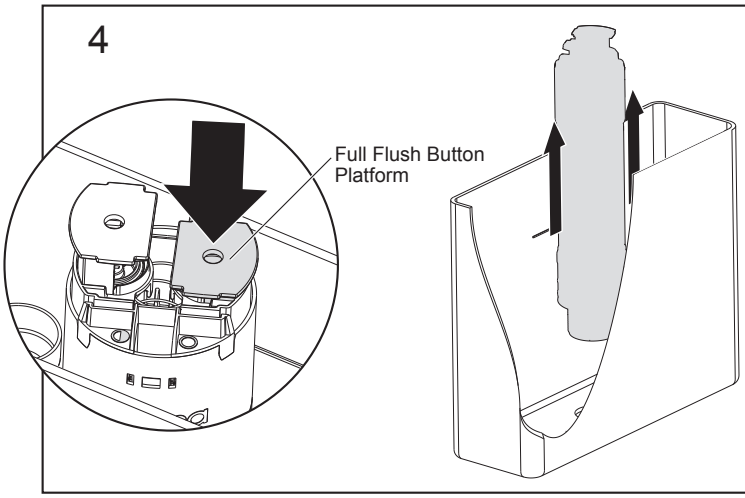
Release the Locking Clip on the Overflow Tube by rotating anti-clockwise ("click") and pull Overflow Tube upwards, exposing a series of numbers on its side.

3



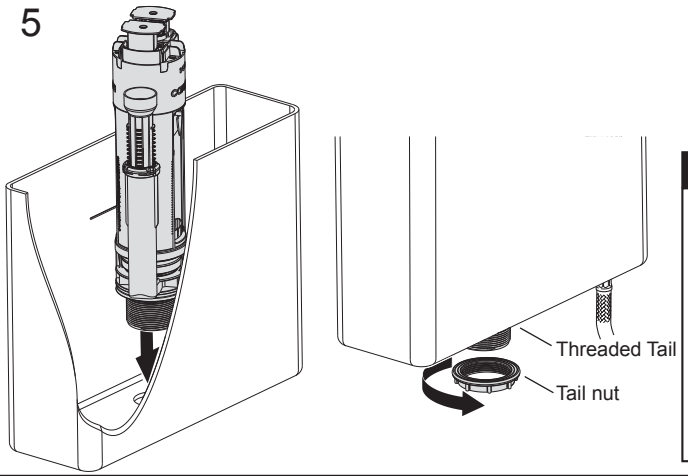
When the new Overflow Height (Re: step 1) is visible rotate the Locking Clip clockwise ("click") to secure its position.

4



Turn off mains water, flush cistern empty and remove existing outlet valve.

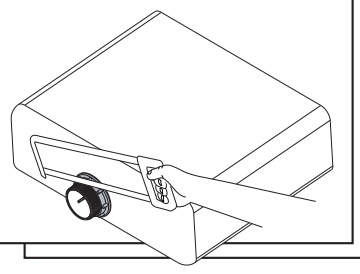
5

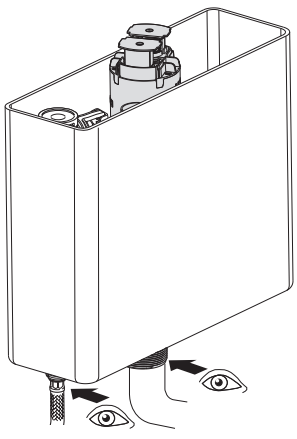


Position the Outlet Valve so the Overflow Tube is in an unobstructed position (clearing cistern walls), firmly secure with tail nut.
Note: The orientation of the buttons is not critical at this stage and can be corrected during "Setting the Flush Volumes" procedure.

6

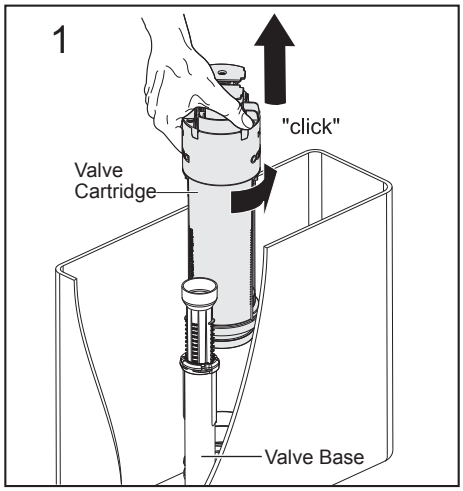
NOTE: for a Close-Coupled Cistern



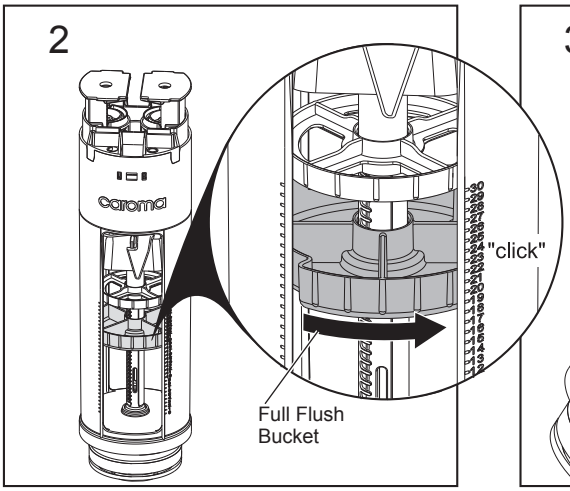


Note: If you have a close-coupled suite (i.e. If the cistern seals directly on top of the pan and does not have a flushpipe), carefully cut off the remainder of the Threaded Tail using the bottom edge of the tail nut as a guide.
Turn mains water on. Allow cistern to fill and check for any leaks. Turn off mains water and flush cistern empty again. Continue with setting the flushing volumes.

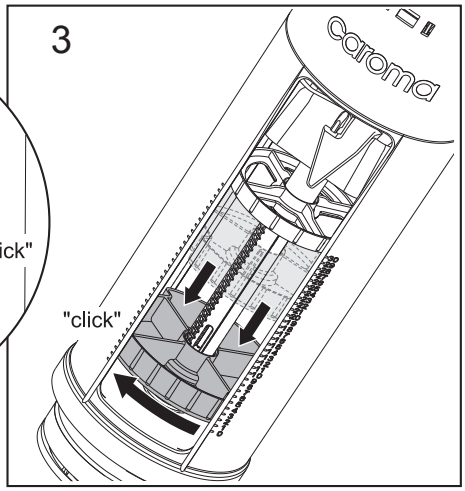
Measured Flush Volume - Setting the Flush Volumes



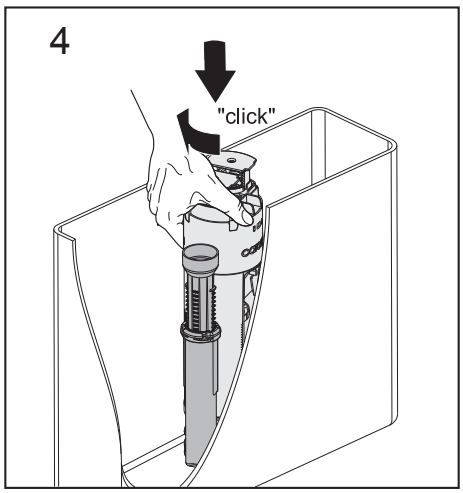
Carefully remove Valve Cartridge by rotating it (“click”) anti-clockwise and lift.



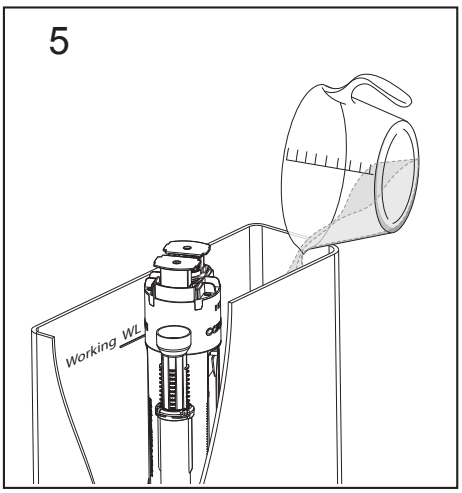
Release the Full Flush Bucket by rotating anti-clockwise (“click”).



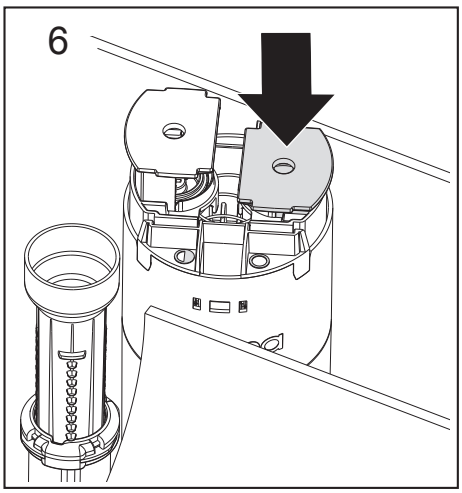
Slide down to the lowest setting and secure its position by rotating it clockwise (“click”).



Replace Valve Cartridge and lock into Valve Base by rotating (“Click”) clockwise.

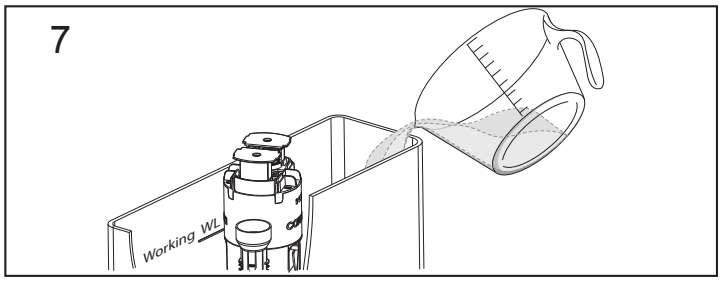


Fill cistern to Working Water Level (WL).



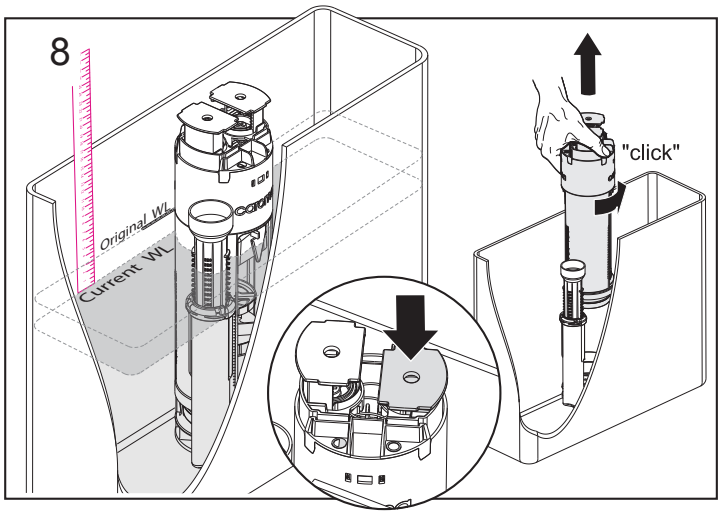
Press the Full Flush button.

= Half Flush = Full Flush



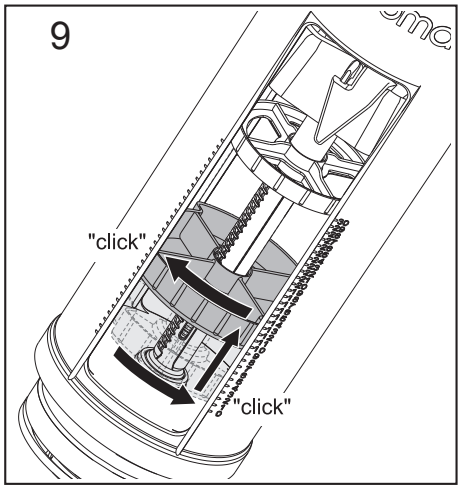
Cistern Rating	Full Flush Volume	Reduced/Half Flush Volume
9/4.5L	9L	4.25L
6/3L	6L	3.25L
4.5/3L	4.5L	3L

Referring to Flush Volume Chart above, add required full flush volume back into the cistern using graduated container.
E.g. If you have a 6/3L cistern then add 6L.

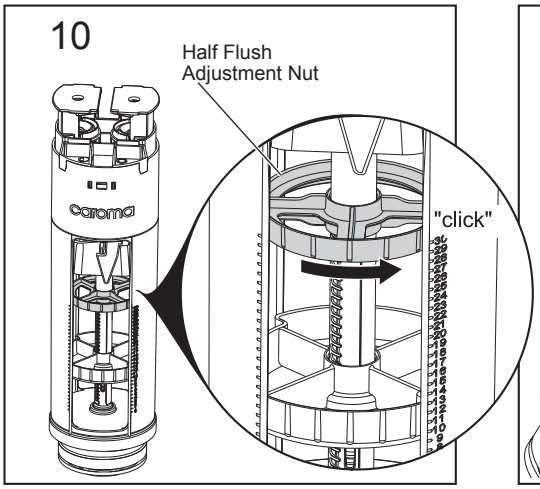


Measure the difference in height between the original Working WL and the resultant WL after refilling. Carefully remove Valve Cartridge again.

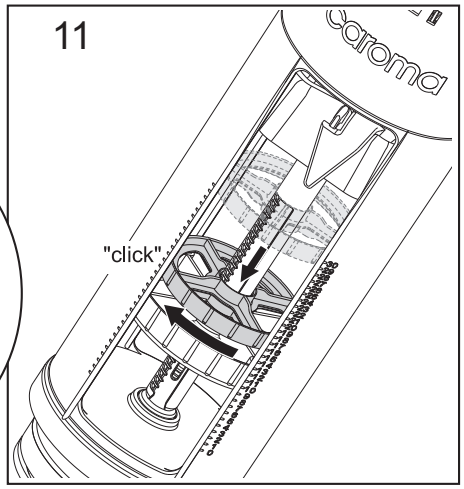
Measured Flush Volume - Setting the Flush Volumes



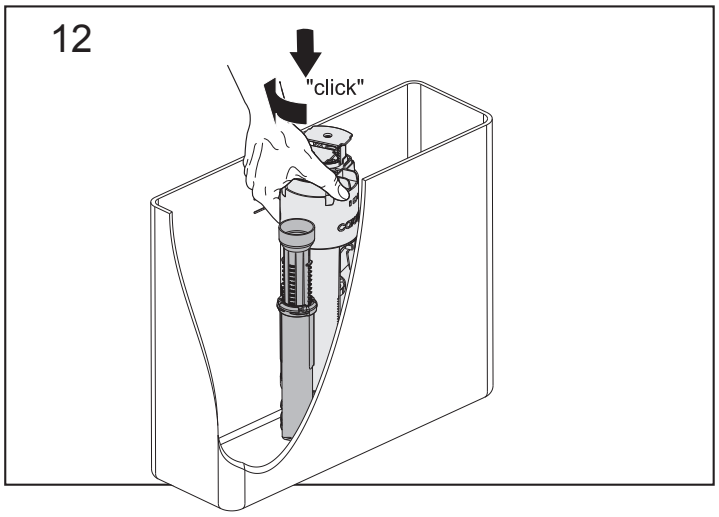
Adjust Full Flush Bucket by the difference in WL height measured.
Note: 3mm = 1 increment
E.g. If the resultant WL is 25mm lower than the original WL, slide up 8 increments.



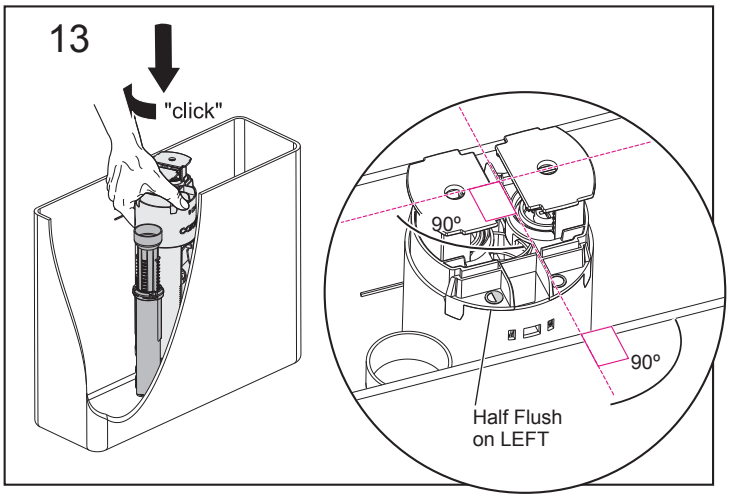
Release the Half Flush Adjusting Nut by rotating anti-clockwise (“click”).



Slide down to the lowest possible setting, directly on top of the Full Flush Bucket and secure its position by rotating clockwise (“click”).

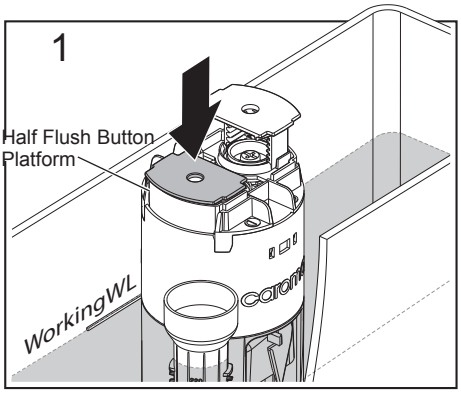


Replace Valve Cartridge and lock into Valve Base by rotating (“Click”) clockwise and repeat steps 5-9 for the Half Flush.
Note: Remember to press the half flush button at step 6 and top up the cistern with the required Half Flush Volume at step 7.

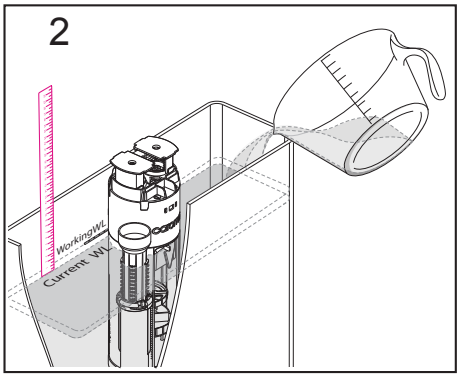


Finally, with the Half Flush Button on the left hand-side, replace Valve Cartridge and lock into Valve Base by rotating (“Click”) clockwise.
Note: The Valve Cartridge can be locked into the base in 15° increments, so make sure the position is selected so the buttons are square to the front.

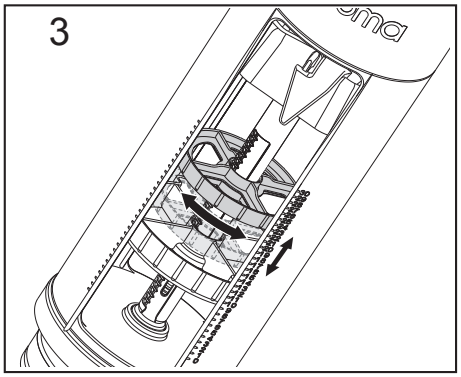
Measured Flush Volume - Checking Flush Volumes



Fill to the WL mark and press the half flush button.

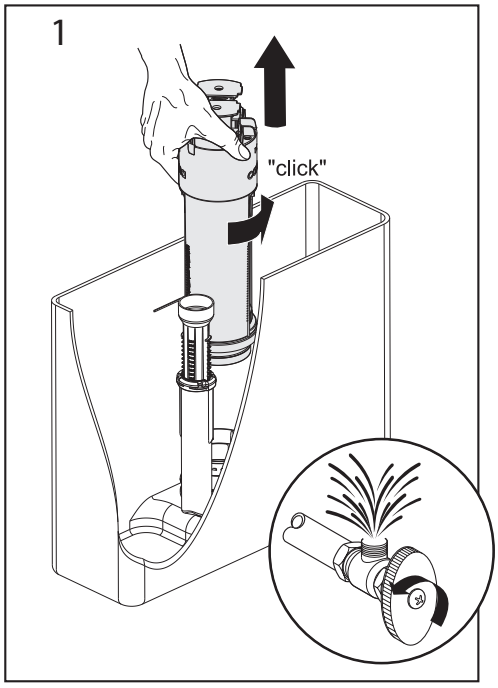


Referring to Flush Volume Chart (in step 7, pg. 4), add the required half flush volume using graduated container.
E.g. If you have a 6/3L cistern then add 3L.

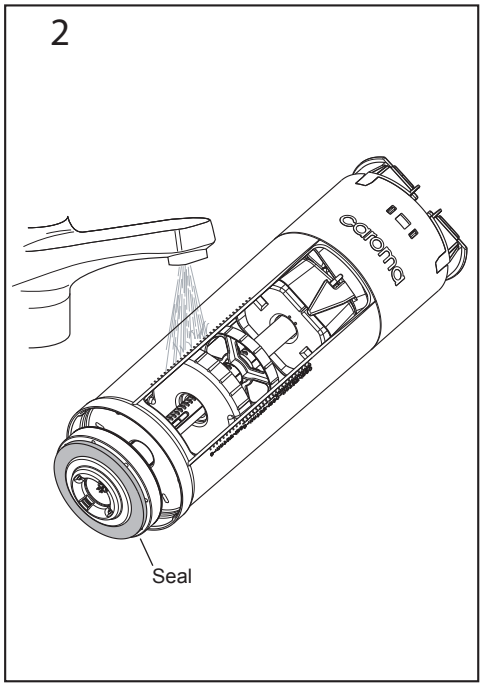


Adjust Half Flush Adjusting Nut as required (lower by 1 increment for every 3mm if the water is above the WL mark, raise if water is below WL mark). Repeat for the Full Flush in necessary.

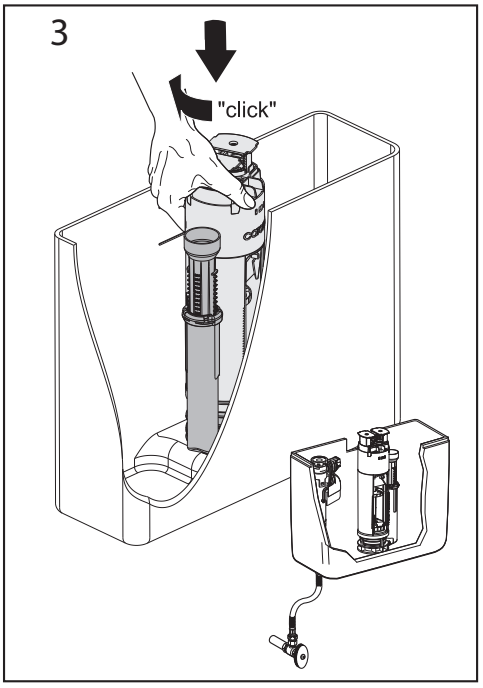
Service/Repair Instructions



Remove lid, turn off mains water and flush cistern empty. Carefully remove Valve Cartridge by rotating it ("click") anti-clockwise and then lifting.



Wash seal to remove any dirt and inspect for damage. If necessary remove seal and replace (Spare Part Kit 750017).



Replace Valve Cartridge and lock into Valve Base by rotating ("Click") clockwise.

Replace cistern lid. Turn mains water back on, wait for cistern to fill and test both buttons to ensure they activate the outlet valve.

Service Requirements

- Servicing is only required in instances where outlet valve operation is found to be faulty.

Troubleshooting Guide

- If valve leaks ► Inspect seal for damage and replace if necessary.
- If short flushing ► Check clearance between button strikers and button platforms on the outlet valve. Adjust if necessary.
- If any other issues arise ► Consult a plumber or Caroma After Sales Service.

Spare Parts Information

- Caroma Outlet Valve compatible Spare Part Kit:
  750 017 - Pack of 10 Seal**s**
  Refer to - Service/Repair Instructions

Options

- Side Entry Inlet Valve Spare Parts Pack - **687 254**
- Quietflow Outlet Valve Vandal Resistant Kit - **750 109**

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