

MODELS

RBA1211-600 SERIES

RBA1211- 600

'Formatta' Sensor Tapware, Electric

RBA1211- 613

'Formatta' Sensor Tapware, Battery



Description

Constructed from heavy duty DR brass with a polished chrome finish and an above bench solenoid for ease of maintenance, the Formatta sensor tap is suitable for public washrooms, offices, schools, shopping centres, stadiums, airports & accessible installations. The sensor detects the presence of the user's hand[s] in the field directly in front of the sensor in the water stream - this activates the flow of water until the hands are removed from the field.

Technical Data

Inlet	½" BSP [G1/2"]
Operating Pressure	200 – 500 kPa
Flow Time	On detection in field + 2 seconds [60s max.]
Maximum Temp.	50°C
Flow Rate	5L per minute
Warranty	1 Year
Bench Hole Size	Ø 28-32mm
Maximum Bench Thickness	38mm

RBA1211-600 1

Power Supply	190 - 240V AC 50-60Hz
Product Operation Voltage	DC 12V

RBA1211-613

Power Supply	4 x AA alkaline batteries
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**For Battery recycling options in your area visit <https://recyclingnearyou.com.au/>

Dimensions

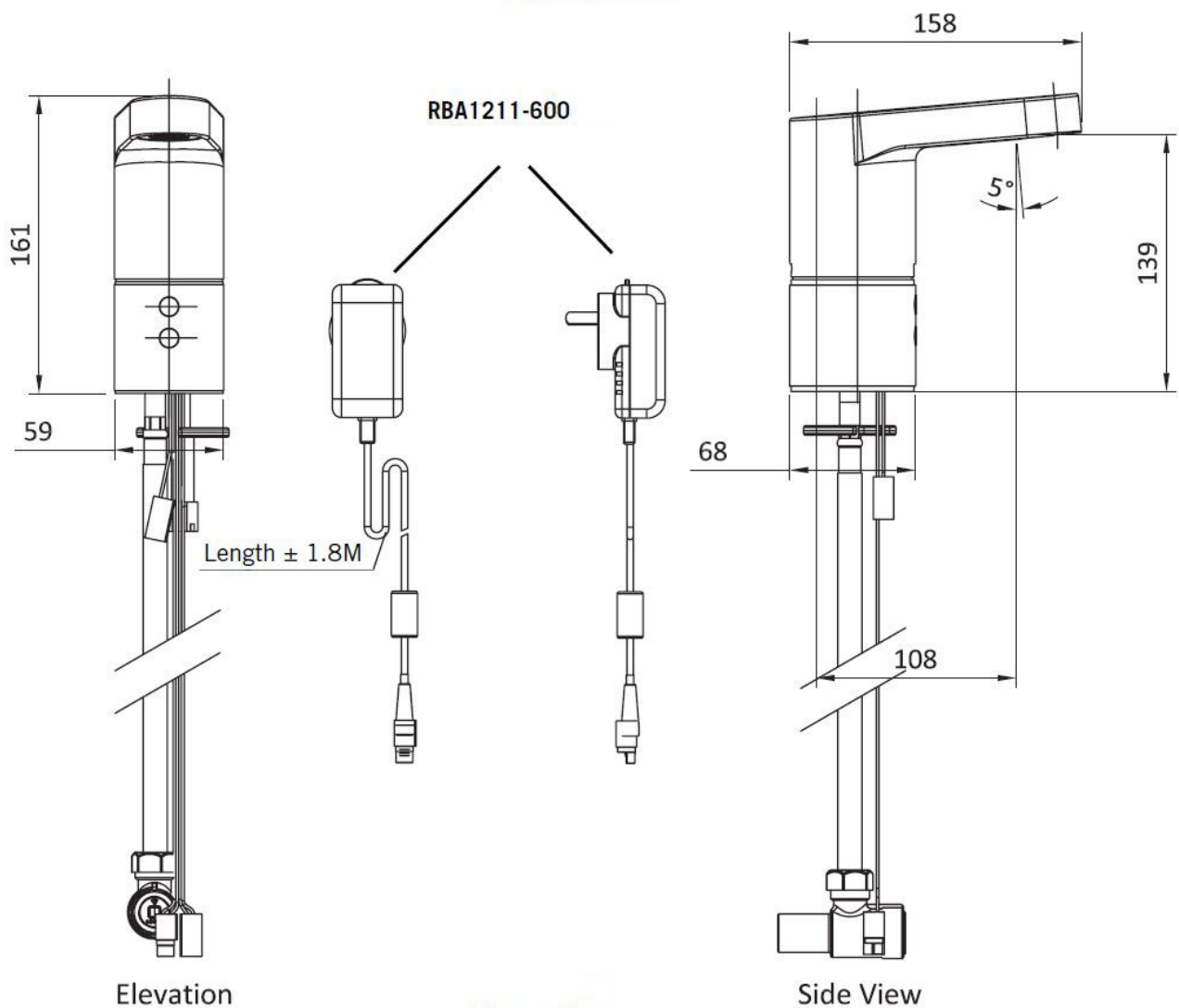


Figure 1

RBA1211-613

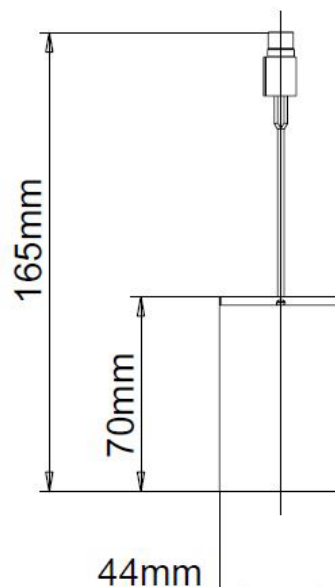


Figure 2

Installation Instructions

Installation must be carried out in accordance with local authority requirements.

1. Installation to be in accordance with the AS/NZ3500 series of Standards plus all local and statutory requirements. For Australia, Installation shall be in accordance with the PCA [Plumbing Code of Australia and any relevant local authority requirements.
2. Flush the line thoroughly and remove all dirt and grit from the line before connecting the tap
3. Install the taps as per: Figure 4 for RBA1211-600; Figure 5 for RBA1211-613
4. When Thermostatic Mixing Valves or Tempering Valves are installed to supply warm water to the inlet of the Formatta Sensor Tap, if the heated water supply to these valves is from a Mains Pressure Water Heater, excess pressure on the heated water supply line can occur during the Water Heater's heating cycle which may be as high as 1400kPa subject to the Pressure and Temperature Relief Valve fitted to the Water Heater. Non return valves are fitted to Thermostatic Mixing Valves and Tempering Valves on both the heated and cold water inlets. As expansion occurs internal of the Water Heater during the heating cycle, the heated water line may pressurise through either valve resulting in a pressure lock occurring at the internal solenoid of the Formatta. This may result in the tap ceasing to operate as intended. Should this occur, isolate the heated and cold water supply lines and disconnect the flexible hose connection on the warm water line to the tap to release the excessive pressure. Reinstall the flexible hose connection, check for leaks and actuate the tap to verify operation. Alternatively, the installation of a Pressure Reducing Valve on the warm water line supplying the Formatta may prevent such a pressure lock occurring.
5. Before turning on the water, remove aerator and flush the tap
6. Replace aerator and check for leaks
7. Insert the appropriate coloured indicator into the hole at the tap base [blue for cold, yellow for warm water].
Please note: the coloured indicator must be installed to fully seal the unit and meet the requirements of AS/NZS3500.1

RBA1074-999-001 Details

The RBA1074-999-001 Angle Valve is a stop strainer that is supplied with the Formatta Sensor Tap. This must be installed as part of the sensor tap installation as it prevents debris from entering the sensor and causing issues with diaphragm and flow control. Failure to install will void warranty.

To clean the strainer or isolate the sensor tap, simply use the special key provided [see Figure 1] and turn the strainer counter clock wise and remove. The angle valve contains a spring loaded stop that will automatically turn the water supply off on removal. Clean strainer or isolate tap where required. Replace strainer to turn the water supply back on.

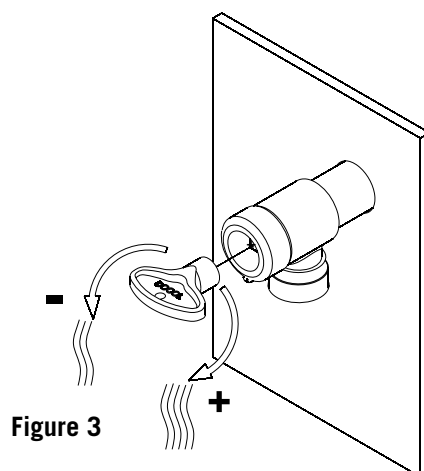


Figure 3

Figure 4 - RBA1211-600

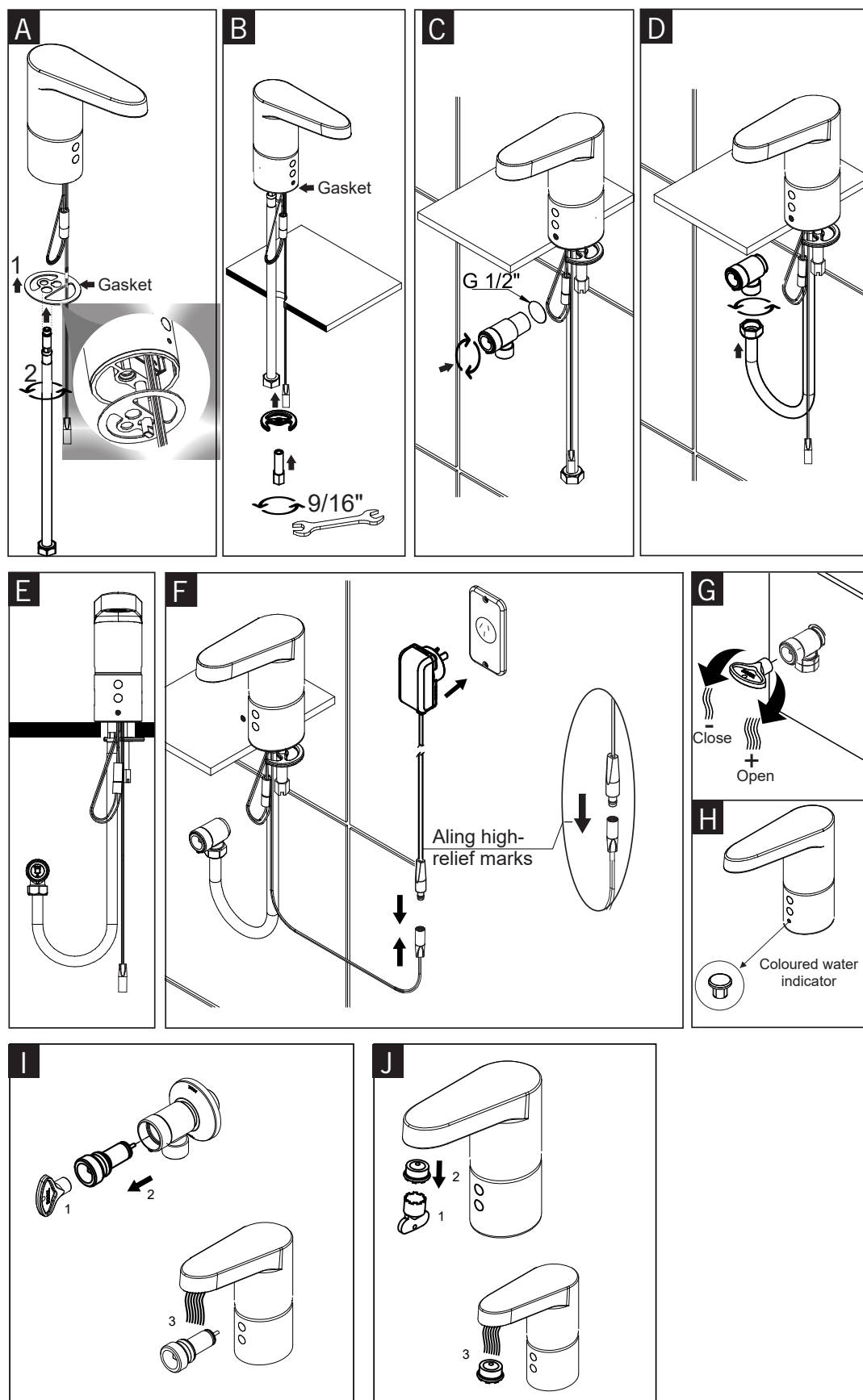
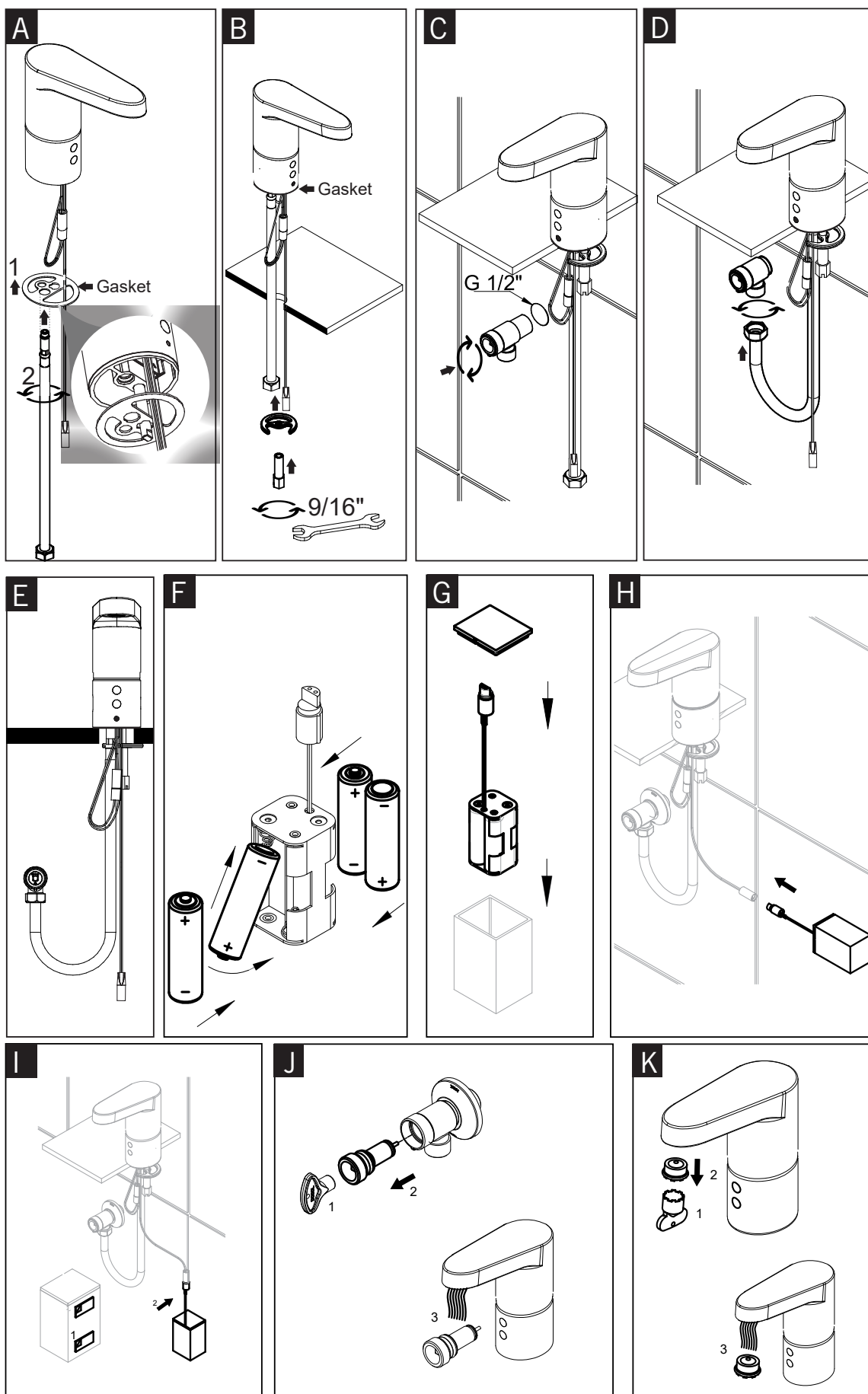


Figure 5 - RBA1211-613



Formatta with TMV Installation

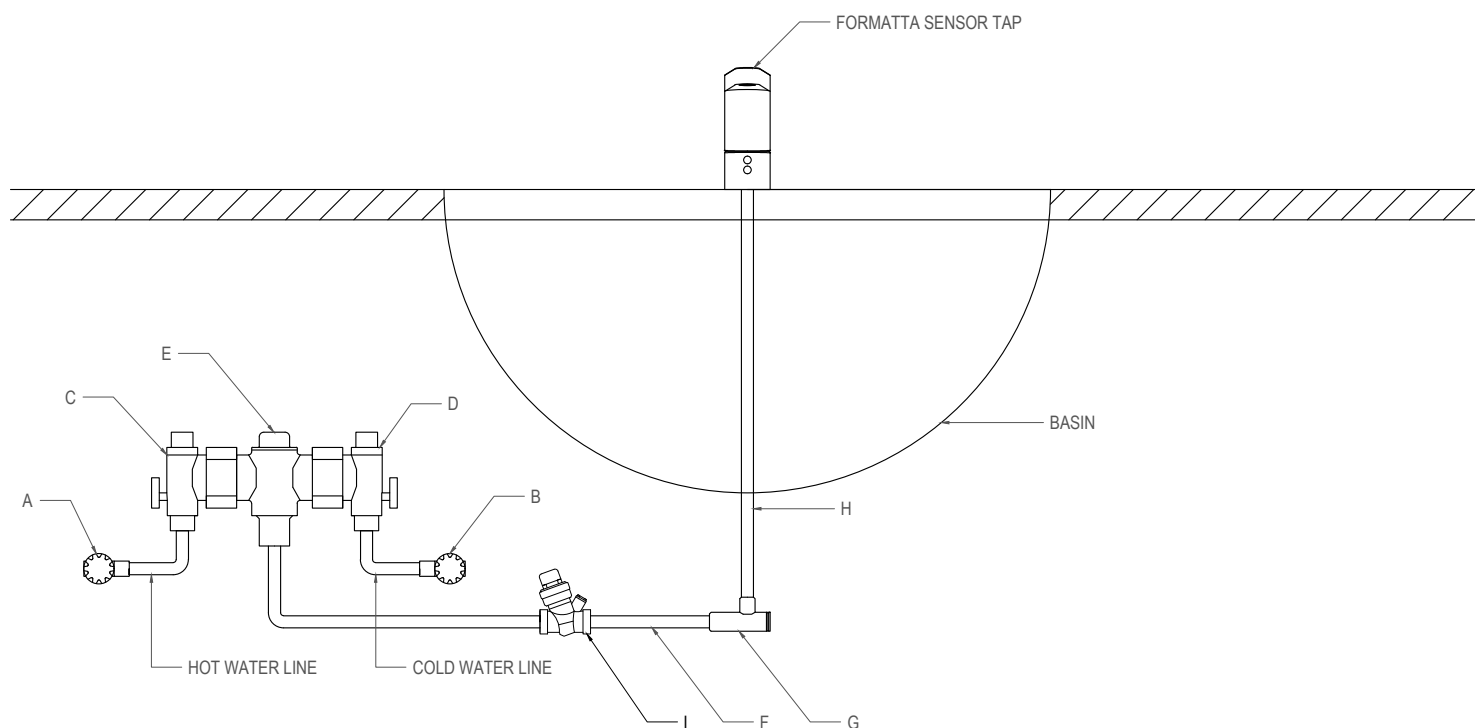
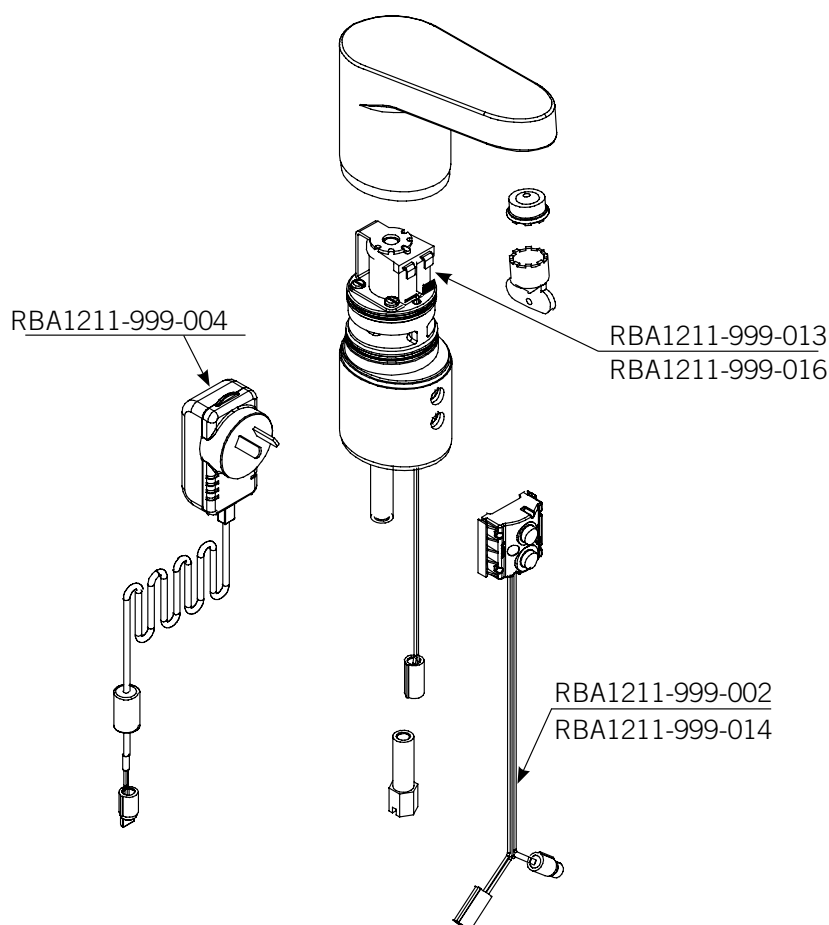


Figure 6

ID	Description
A	Hot water inlet
B	Cold water inlet
C	Non return valve/ strainer
D	Non return valve/ strainer
E	Tmv or tempering valve
F	Warm water line
G	Stop / strainer (supplied with the formatta tap)
H	Warm water line / flex hose
I	Refer to install Instructions on page 4

Spare Parts

Figure 7



RBA Code No.	Description
RBA1211-600	
RBA1211-999-002	Sensor Pack to suit Formatta, Electric
RBA1211-999-004	240V Power Pack to suit Formatta, Electric
RBA1211-999-013	Solenoid Valve to suit Formatta, Electric
RBA1211-613	
RBA1211-999-014	Sensor Pack to suit Formatta, Battery
RBA1211-999-015	Power Pack to suit Formatta, Battery
RBA1211-999-016	Solenoid Valve to suit Formatta, Battery

Troubleshooting - RBA1211-600

Problem	Probable Cause	Solution
Water droplets appearing under basin	Gasket improperly installed	Install or realign gasket
	Temperature indicator not installed	Insert appropriate temperature indicator
	Damaged 'Formatta' Valve Body O-ring	Replace O-ring
Water does not flow and solenoid valve does produce an audible CLICK	Water turned off	Turn water on
	Inlet valve closed or clogged	Open valve or remove and clean strainer [refer RBA1074-999-001 detail]
	Aerator clogged	Remove and clean aerator
	Braided hose kinked	Replace braided hose
	Solenoid valve incorrectly installed	Check flow direction on valve's body. Reassemble if necessary
Water does not flow and solenoid valve does <u>not</u> produce an audible CLICK	No power connected	Check power supply & breaker
	Power supply unit disconnected	Check it and plug it in
	Sensor, cables or power supply unit damaged	Check electrical plug pins are OK. Where damage has occurred contact product distributor
	Direct/bright light	Remove direct/bright light
Sensor light registers but no flow	Direct/bright light	Remove direct/bright light
Water flows continuously (does not stop)	Object in front or within sensor's range	Remove the object
	Sensor, cables or power supply unit damaged	Contact RBA Group
	Power supply connected directly to solenoid valve	Disconnect power supply wiring under basin and connect power supply to sensor plug. Ensure to also connect sensor to solenoid plug.
	Dirt in diaphragm	Turn water and power off. Clean and replace diaphragm. Turn water and power on.
Water Flows (intermittent failures or incorrect function)	Highly reflective surface	Unit not recommended for use with high polished stainless steel basins (satin finish OK). Place dull coloured strip opposite sensor.
	Hands too low or high in basin & not directly in front of sensor when in use	Users to place hands in flow stream directly in front of sensor to correctly activate

Troubleshooting - RBA1211-613

Problem	Probable Cause	Solution
Water droplets appearing under basin	Gasket improperly installed	Install or realign gasket
	Temperature indicator not installed	Insert appropriate temperature indicator
	Damaged 'Formatta' Valve Body O-ring	Replace O-ring
Water does not flow and solenoid valve does produce an audible CLICK	Water turned off	Turn water on
	Inlet valve closed or clogged	Open valve or remove and clean strainer [refer RBA1074-999-001 detail]
	Aerator clogged	Remove and clean aerator
	Braided hose kinked	Replace braided hose
	Solenoid valve incorrectly installed	Check flow direction on valve's body. Reassemble if necessary
Water does not flow and solenoid valve does <u>not</u> produce an audible CLICK	Batteries low. Red LED blinks once every 1 second	Replace the batteries. Install the batteries exactly as shown.
	Batteries assembled with inverse polarities.	Install the batteries exactly as shown
	Connection failure between sensor and solenoid valve.	Connect the sensor cable in the solenoid valve cable.
	Sensor cable is damaged	Contact RBA Group
	Sensor is damaged	Contact RBA Group
Water flows continuously [does not stop]	Object in front or within sensor's range	Remove the object
	Sensor, cables or power supply unit damaged	Contact RBA Group
	Power supply connected directly to solenoid valve	Disconnect power supply wiring under basin and connect power supply to sensor plug. Ensure to also connect sensor to solenoid plug.
	Dirt in diaphragm	Turn water and power off. Clean and replace diaphragm. Turn water and power on.
Water Flows [intermittent failures or incorrect function]	Highly reflective surface	Unit not recommended for use with high polished stainless steel basins [satin finish OK]. Place dull coloured strip opposite sensor.
	Hands too low or high in basin & not directly in front of sensor when in use	Users to place hands in flow stream directly in front of sensor to correctly activate

Note: This product should be installed, by suitably qualified persons, in a fit for purpose application, to suitable materials, using suitable fixings and comply with any relevant codes. It should be inspected periodically for signs of wear and tear that may affect performance or safety.

Dimensions are subject to manufacturer's tolerance of +/-10mm. Rough-in should be completed with each fixture.

Important: Installation Instructions are subject to change without notice.

Please visit **our websites** for latest revision.

