

This product should only be fitted by a qualified plumber to NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3. Should the installation be completed by a non-qualified person then the guarantee may be considered invalid.

For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - [www.iphe.org.uk](http://www.iphe.org.uk)

## THE QUALIFICATIONS

At present, to be a plumber you need to follow the National Vocational Qualification (NVQ) route (Scottish National Vocational Qualification - SNVQ - in Scotland). These qualifications are made up of theory and practical work in the classroom/purpose built training facility and work based experience with a working plumber. Colleges should help students find a work placement, although many students organise it themselves.

The S/NVQ qualification works in levels. All recently qualified plumbers should hold S/NVQ Level 2 as basic with Level 3 as the preferred level. Level 2 will give you the foundation you need for a career in plumbing and teach you domestic plumbing to a satisfactory level. Level 3 is more comprehensive and deals with domestic, commercial and industrial plumbing along with aspects such as gas - if you want to one day set up your own business, this is the level to reach. The Institute of Plumbing and Heating Engineering, and the industry as a whole recommends that all plumbers reach a minimum of Level 3.

Reaching Level 3 has other advantages. The Institute runs a Master Plumber Certificate, which only those attaining Level 3 or equivalent can reach as long as they have the relevant experience as well. Those with S/NVQ Level 3 can (once in membership with the Institute for five years as a Member MIPHE) gain Engineering Technician EngTech status with the Engineering Council (UK).

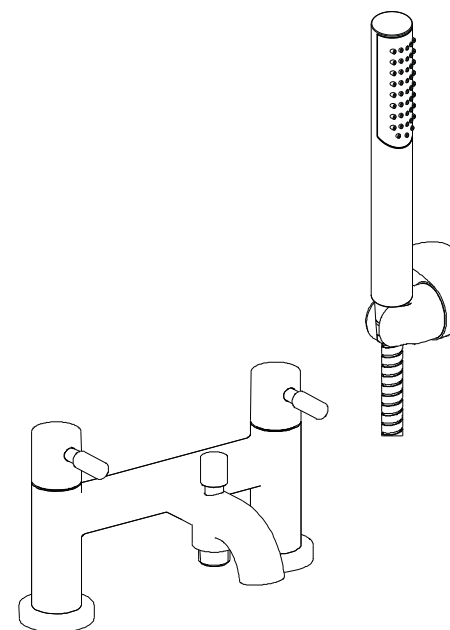
For any further information please email  
[technical@crosswater.co.uk](mailto:technical@crosswater.co.uk)

Or visit our web-site at <http://www.crosswater.co.uk>

The manufacturer reserves the right to make technical modifications without prior notice

## Bath Shower Mixer with kit dual lever

MBFU422D



## INSTALLATION INSTRUCTIONS

## INSTRUCTION

**Please read these instructions carefully and keep in a safe place for further reference.**

### General Installation Requirement

The installation must comply with regulations of the Local Water Authority as contained in their bylaws. All of the taps in this range are single flow (the hot and cold water mix in the body) and therefore should be supplied with hot and cold water at balanced pressures. If the taps are not supplied balanced pressures then the mixer will not function correctly. It will also be necessary to fit non-return valves on both the hot and cold feeds. It is very important that all pipework is flushed thoroughly after installation to avoid damaging the ceramic discs.

### Minimum/Maximum working pressure

These taps are suitable for high and low pressure installations. They are fitted with a quarter turn ceramic disc headwork which provides a smooth movement. The minimum work pressure is 0.5bar. The maximum work pressure is 5bar. If the mains pressure is over 5bar, a pressure reducing valve should be fitted.

### Approvals

All taps are manufactured using materials tested and approved under the Water Bylaws Scheme and comply with requirements of European standard EN200 where applicable.

### Preparations and bylaw requirements

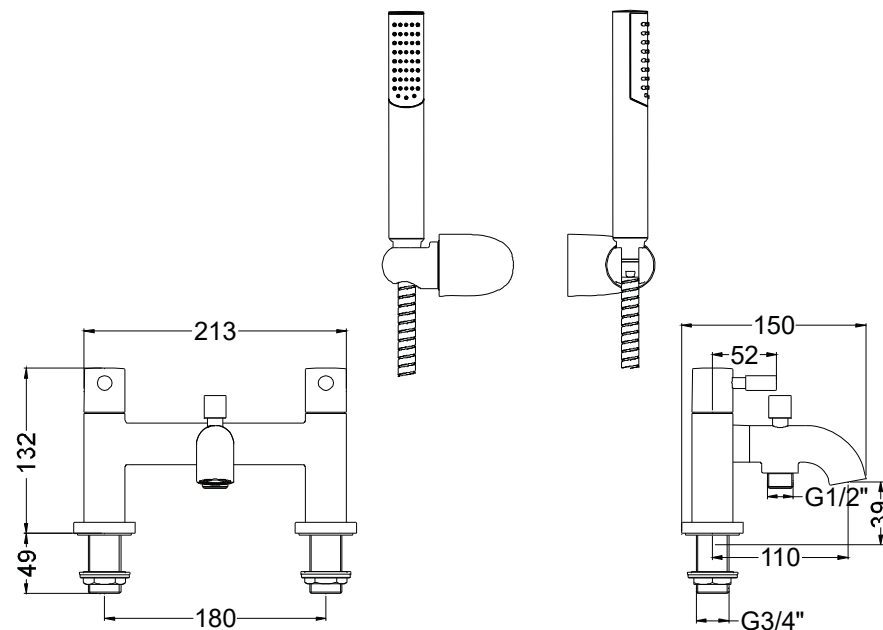
These taps are single flow so the hot and cold water mix in the body. Water Bylaws require that where hot water is supplied from tank and cold from mains, non return valves are fitted on both hot and cold pipes as close as possible to the tap. These are not supplied. Where combination boilers are fitted, it is only necessary to shut off the incoming mains and turn the boiler off and non return valves are not required.

### Warning

**Before installing the new mixer, it is essential that you thoroughly flush through the supply pipes in order to remove any remaining swarf, solder or other impurities. Failure to carry out this simple procedure could cause problems or damage to the working of the mixer.**

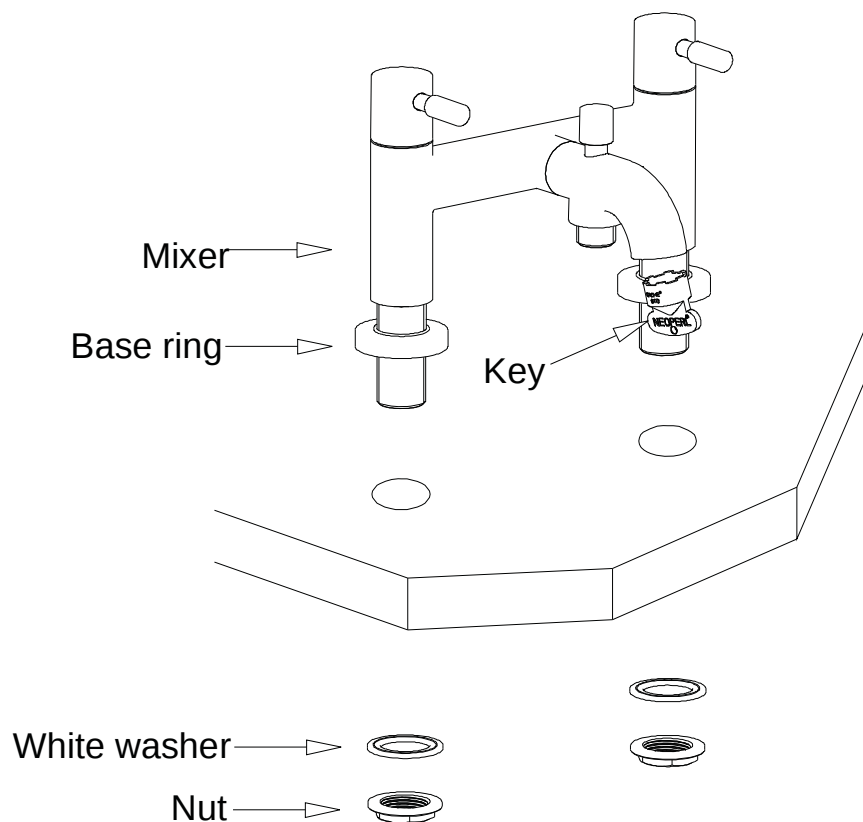
These hints are prepared in your guidance; you must exercise due care at all times. We do not accept responsibility for any problems that may occur through incorrect installation • •

## DIMENSIONS



**NOTE: ALL DIMENSIONS IN MILLIMETRES**

## INSTALLATION



## INSTALLATION

First shut off your water heating system, then with your mains stop cock closed, open the lowest cold and hot taps in the house and allow to run until the cold storage tank and pipes are empty (the hot storage cylinder always remains full).  
Fitting isolating valve to inlet feeds is recommended for ease of maintenance.

### INSTALLATION

**Note: Remember to turn off mains water supply before connecting to any existing pipe work.**

Remove the nuts and white washers from the mixer tails.  
Place the mixer on the bath with its tails into holes and the base rings between the bath and mixer.  
Slide the white washers over the mixer tails followed by the nuts.  
Secure the mixer by screwing the nuts finger tight. Afterwards check the mixer is correctly positioned and tighten the nuts.

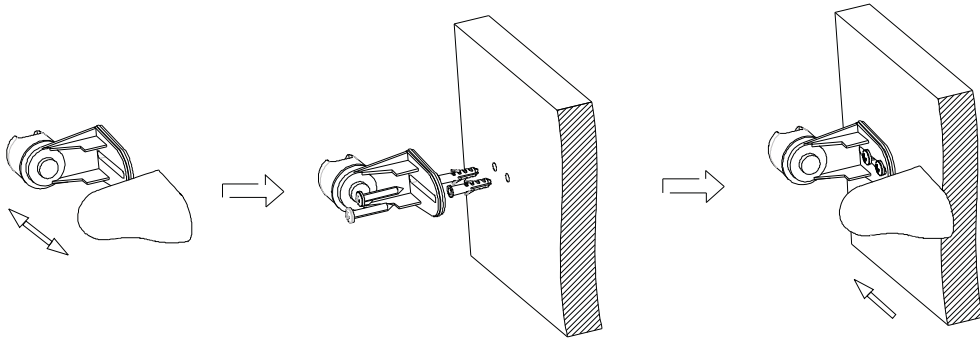


Please use the key to remove aerator from spout if required.

### ATTENTION

Having first checked all new connections, turn on the mains stop cock, close all taps except the new mixer and as system starts to refill, check for leaks. Once you have satisfied yourself that there are no leaks, switch on the water heating • •

## INSTALLATION

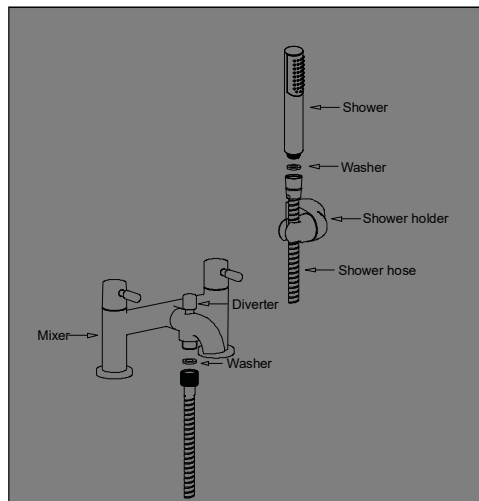


Separate the shell and body of shower holder.  
Once most practical position of the shower holder is agreed, drill holes on the wall and insert wall plugs provided into holes.  
Fix the body of shower holder on the wall by the screws provided.  
Push the shell over the body of shower holder.

Insert a washer into each end of the shower hose and then screw it to the shower and mixer.

### Operations

Pull up diverter to operate the shower and it can be locked by turning an angle.



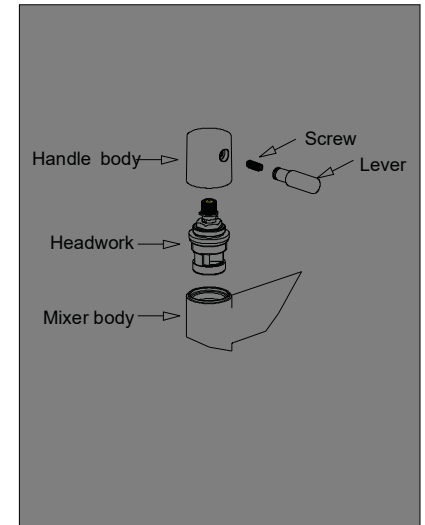
## MAINTENANCE

### Cleaning the headwork

The concealed headwork should give trouble free service, but in the event of any problem, service is straight forward.

### To remove the headwork

Unscrew the lever and then use a suitable hex key (not supplied) to loosen the screw, but do not remove it. Pull off the handle body. Loosen the headwork using an adjustable spanner (not supplied). Take the headwork out and wash it with clean running water. Make sure any trapped debris has been removed. Dry and lightly grease the seal (only use silicone grease). Refit the headwork followed by handle body and lever.



## CLEANING

The chrome plate we use on our taps is very durable, nevertheless care should be taken when cleaning. It should be cleaned only with warm soapy water followed by rinsing with clean water and drying with a soft cloth. All finishes are vulnerable to acid attack and some strong substances such as household cleaners, disinfectants, denture cleaners, hair dyes, wine making and photographic chemicals can cause surface to go black or peel.