ADORA

Bath Shower Mixer 4 Hole With Kit

MBST440D

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.

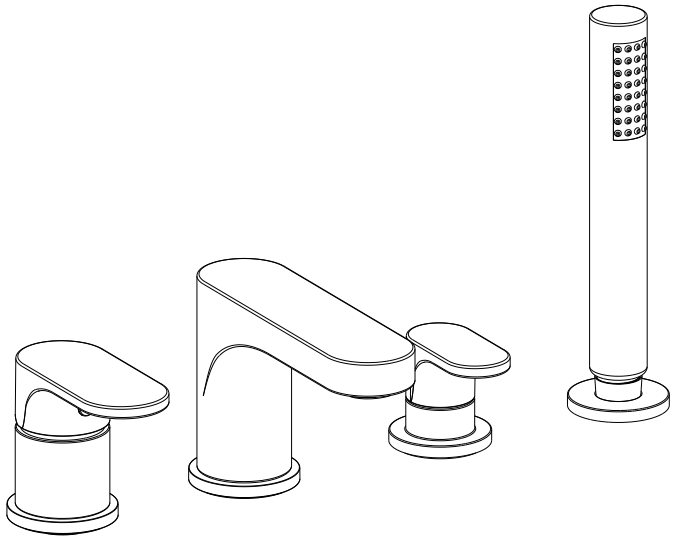
For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - *www.iphe.org.uk*

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).



INSTALLATION INSTRUCTIONS

For any further information please email
technical@adora-bathrooms.co.uk

Or visit our web-site at www.adora-bathrooms.co.uk

ADORA

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.

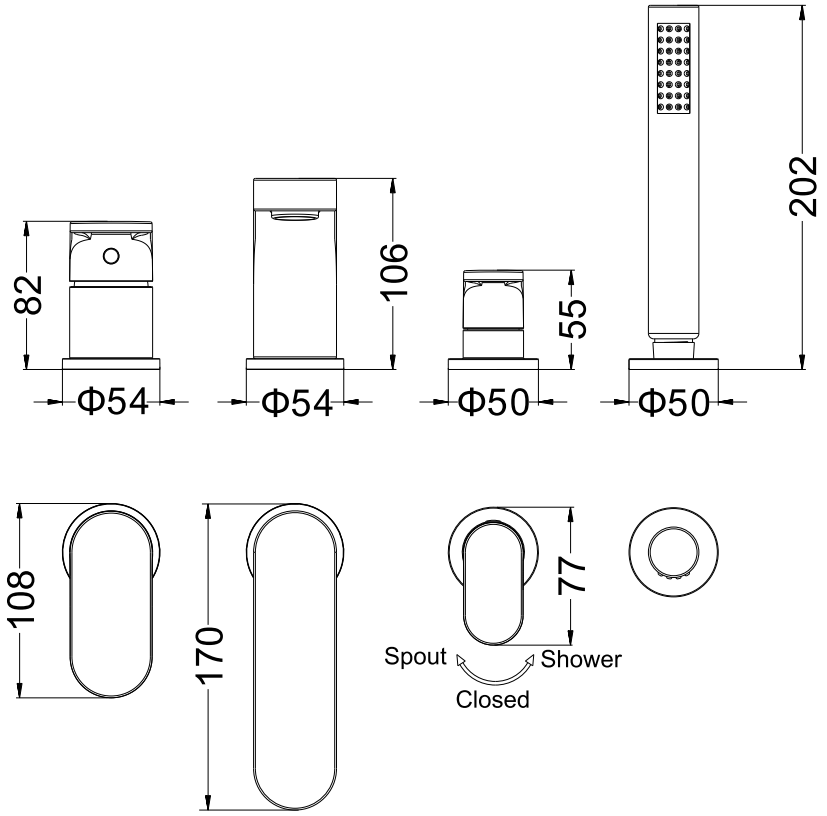
Minimum/Maximum working pressure
These taps are only suitable for high pressure installations. They are fitted with single lever cartridges which provide a smooth movement. The minimum work pressure is 2bar. The maximum work pressure is 5bar. If the mains pressure is over 5bar, a pressure reducing valve 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 EN817 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.

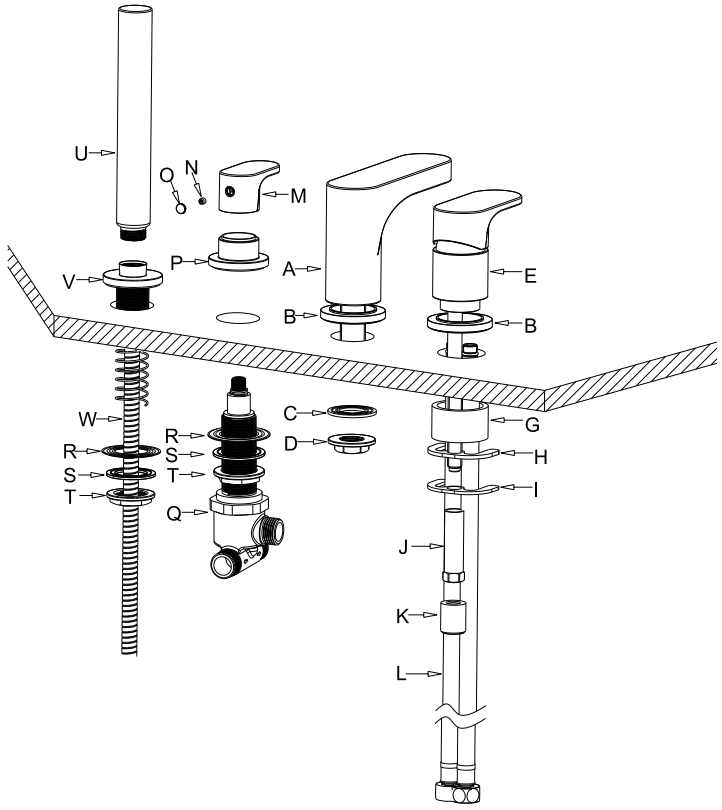
DIMENSIONS



NOTE: ALL DIMENSIONS IN MILLIMETRES

INSTALLATION

A	Spout assembly	J	Retaining nut	Q	Diverter assembly
B	Base ring	K	Connector	R	Metal washer
C	Washer	L	Flexible hose	S	Washer
D	Back nut	M	Diverter Handle	T	Back nut
E	Controller	N	Grub screw	U	Shower
G	Black spacer	O	Cap	V	Shower holder
H	C-shaped rubber washer	P	Shroud	W	Shower hose
I	C-shaped metal washer				



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.

The traditional layout is as illustrated on page 3, but may vary.

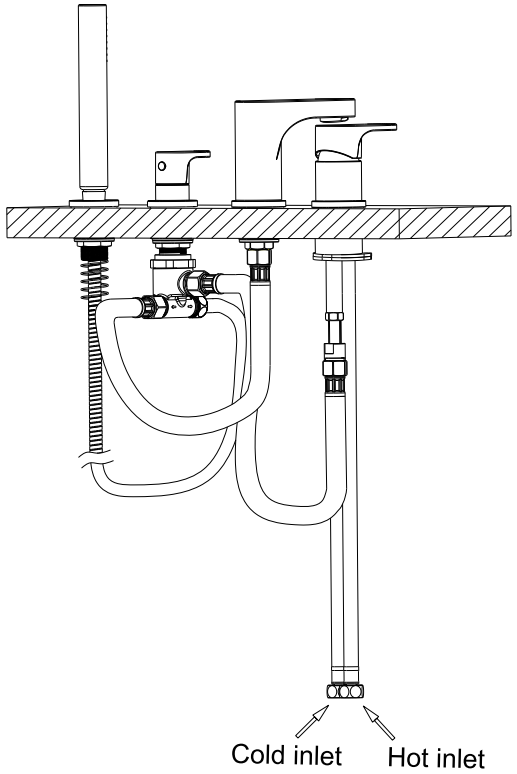
-Install the spout assembly
Remove the washer (C) and back nut (D) from spout tail. Then place the spout assembly (A) through bath hole with the base ring (B) under its base and tail through hole.
Slide the washer (C) over the spout tail and then screw the back nut (D) to hand tighten.

-Install the controller
Remove the connector (K), retaining nut (J), C-shaped metal washer (I) and rubber washer (H) and black spacer (G) from the control assembly (E).
Screw the flexible hoses (L) into the controller (E). Then place it on the bath inserting tails through hole.
Slide the black spacer (G) followed by the C-shaped rubber washer (H) and metal washer (I) over its tail and then screw the retaining nut (J) to hand tighten. **If the thickness of fitting surface is enough for tightening the controller, the black spacer (G) is not needed.**
Refit the connector (K).

-Install the diverter assembly
Pull off the cap (O) and use the hex key supplied to loosen the grub screw (N) but not remove it. Remove the diverter handle (M) and then the shroud (P). Put the diverter assembly (Q) with washers and nut (R, S, T) up through the bath hole from the underside of bath. Then screw the shroud (P) and back nut (T) to tighten the diverter assembly (Q).Refit the diverter handle (M).

-Install the shower holder assembly
Remove the back nut (T), washer (S) and metal washer (R) from the tail of shower holder (V). Place the shower holder on the bath with its tail and the shower hose (W) through hole.
Slide the metal washer (R) on the tail of the shower holder followed by the washer (S) and then screw the back nut (T) to hand tighten.

INSTALLATION



Attach the shower hose (W) to the shower (U) and diverter assembly(Q).
Attach the spout assembly (A) and controller (E) to diverter assembly (Q) using braided hoses provided.

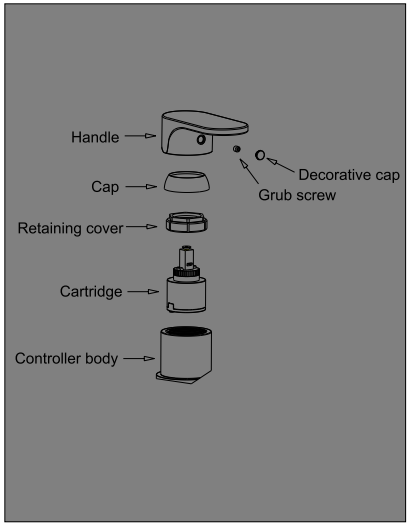
ATTENTION
Having first checked all new connections, turn on the mains stop cock, close all taps except the new mixer and as system starts to refill, check for leaks.
Once you have satisfied yourself that there are no leaks, switch on the water heating.

Operations
Turn the diverter handle to the left to operate the spout and to the right to operate the shower when viewed from front.

MAINTENANCE

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

To remove the cartridge
Pull off the decorative cap and then use the hex key supplied to loosen the grub screw, but do not remove it. Pull off the handle and unscrew the cap. Remove the retaining cover using an adjustable spanner (not supplied). Take the cartridge out and wash it with clean running water. Make sure any trapped debris has been removed. Dry and lightly grease the seal (bottom of cartridge, only use silicone grease). Refit the cartridge followed by the retaining cover, cap and handle.



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.