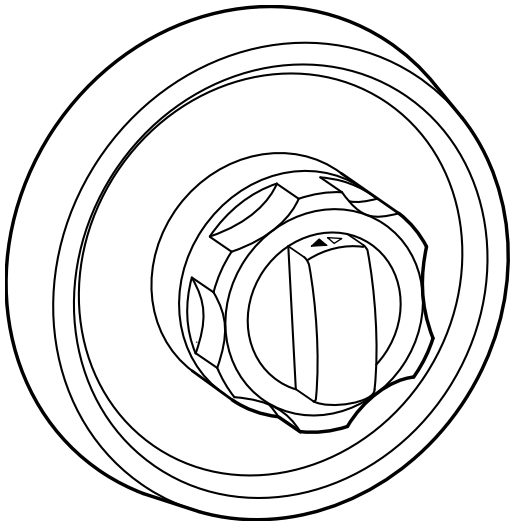
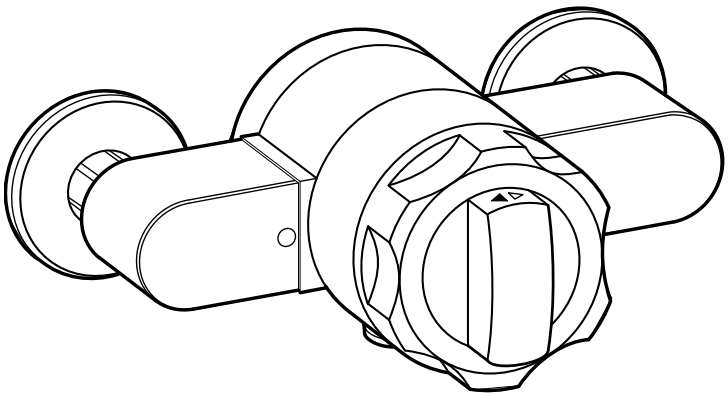
mira

88





SHOWER CONTROL

Installation

Operation &

Maintenance Guide

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

Contents

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Appendices:

Section 1

Important Safety Information

1. WARNING!

1.1. Products manufactured by us are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.

2. Caution!

2.1. Read all of these instructions.

2.2. Retain this guide for later use.

2.3. Pass on this guide in the event of change of ownership of the installation site.

2.4. Follow all warnings, cautions and instructions contained in this guide.

2.5. The plumbing installation must comply with the requirements of UK Water Regulations/Bye-laws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers. The installation should be carried out by a plumber or contractor who is registered, or is a member of, an association such as:

2.5.1. Institute of Plumbing (IOP), throughout the UK.
2.5.2. National Association of Plumbing, Heating and Mechanical Services Contractors (NAPH & MSC), England and Wales.
2.5.3. Scottish and Northern Ireland Plumbing Employers' Federation (SNIPEF), Scotland and Northern Ireland.

2.6. Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to the young, the elderly, the infirm, or anyone inexperienced in the correct operation of the controls.

2.7. The temperature control can be turned from **FULL HOT** to **FULL COLD**. As such, turning the control to full hot will deliver water at the hot water storage temperature.

Section 2

Introduction

Thank you for purchasing a quality Mira product. To enjoy the full potential of your new product, please take time to read this guide thoroughly, having done so, keep it handy for future reference.

A range of Mira 1/2" manual shower controls which provide independent selection of spray force and temperature. The Mira 88 is available with a choice of surface mounted and built-in models.

The Mira 88 is not a thermostatic shower control and does not sense supply temperature or pressure variations. Therefore, inlet water temperatures and pressures especially the hot, should be relatively constant.

The Mira 88 is suitable for installation with the following packages:-

- Gravity fed systems
- Pumped systems

Shower controls covered by this guide:

Mira 88

Surface mounted shower control for connection to **exposed pipework**. White/chrome or white/light golden colour models are available.

Mira 88 B

Built-in shower control for connection to **concealed pipework**. White, white/chrome or white/light golden colour models are available.

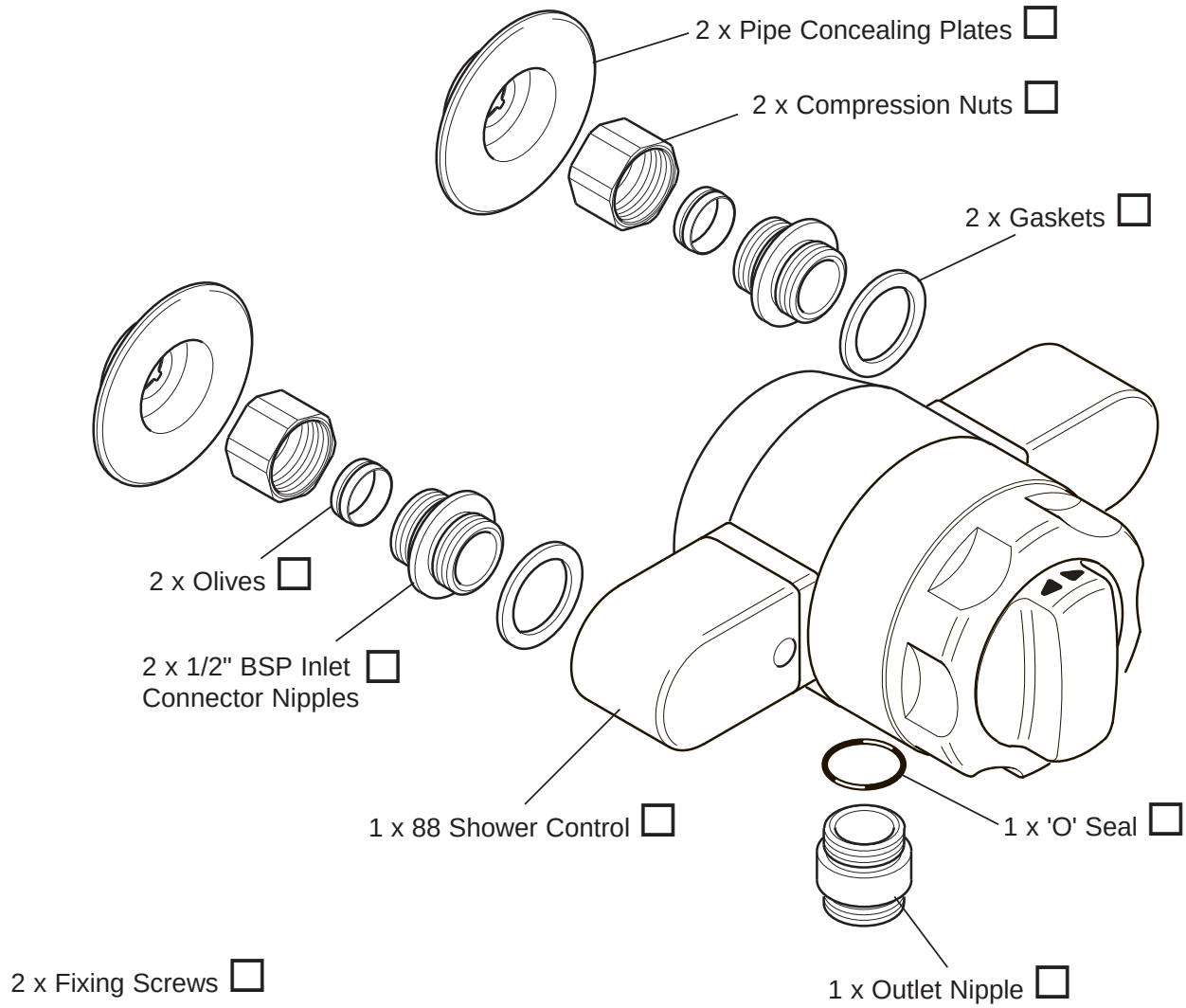
If you experience any difficulty with the installation or operation of your new shower control, then please refer to **Section 8 Maintenance: "1. Fault diagnosis"**, before contacting Kohler Mira Limited. Our telephone and fax numbers can be found on the back cover of this guide.

Section 3

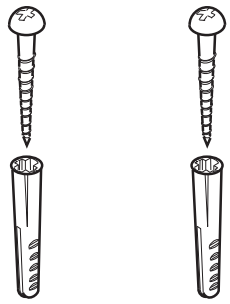
Pack Contents Checklist

☑ Tick the appropriate boxes to familiarize yourself with the part names and to confirm that the parts are included.

1. Mira 88 Surface Mounted shower control



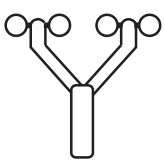
2 x Fixing Screws ☐



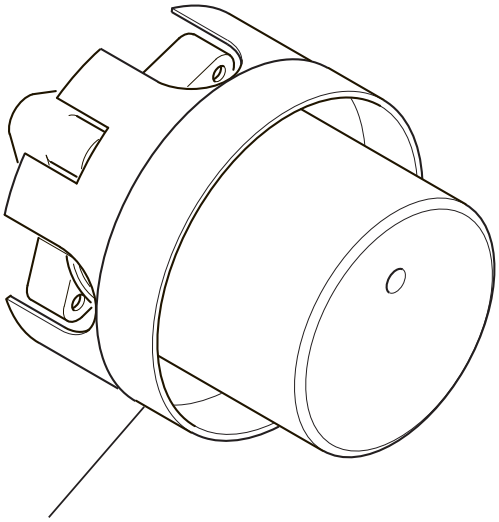
2 x Wall Plugs ☐

1 x 2.5 mm A/F Hexagonal Wrench ☐

2 x Concealing Caps ☐

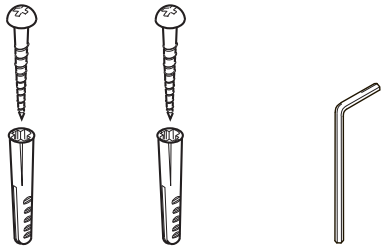


2. Mira 88 B Built-in shower control



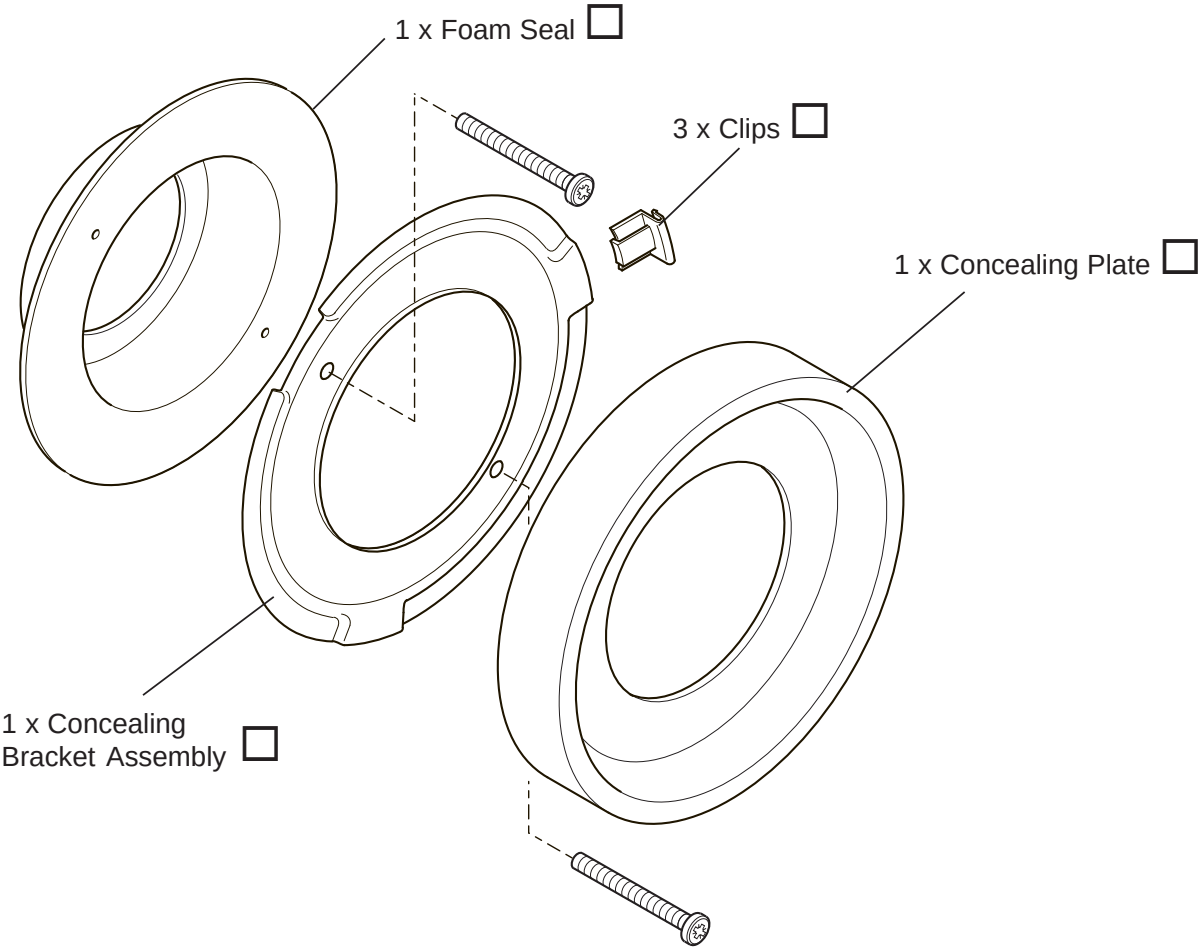
1 x 88 B Shower Control ☐
With Building-in Shroud

2 x Fixing Screws ☐



2 x Wall Plugs ☐

1 x 2.5 mm A/F
Hexagonal Wrench ☐



3. Documentation

1 x Installation, Operation and Maintenance Guide ☐

1 x Customer Support Brochure ☐

Section 4

Specifications

1. Pressure range

Mira 88 (valve only)

1.1. Minimum pressure 0.06 bar.

1.2. Maximum maintained pressure 1.5 bar.

1.3. Maximum static pressure 5 bar.

Mira 88 B (valve only)

1.4. Minimum pressure 0.06 bar.

1.5. Maximum maintained pressure 1.5 bar.

1.6. Maximum static pressure 5 bar.

2. Connections

Mira 88

2.1. Inlet 15 mm compression or 1/2" BSP male.

2.2. Outlet 1/2" BSP male/female.

Mira 88 B

2.3. Inlet 1/2" BSP female.

2.4. Outlet 1/2" BSP female.

3. Stored Water Temperature

3.1. It is recommended that the temperature of stored water should never exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all normal requirements and will minimise the deposition of scale in hard water areas.

Section 5

Installation Requirements

1. General

Read the section **"Important Safety Information"** first.

1.1. Products manufactured by us are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.

1.2. Layout and sizing of pipework **must** be such that when other services are used, pressures at the shower control inlets are maintained approximately equal and **do not** fall below the recommended minimum.

1.3. **Do not** install the product in a position where it could become frozen.

1.4. **Do not** use excessive force when making connections.

1.5. **Do not** install the product in a position in which service access is restricted.

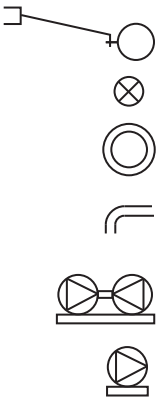
1.6. A hose retaining ring is supplied to prevent the handset from dropping below the spillover level of the bath or shower which could lead to contamination.

1.7. The plumbing installation must comply with the requirements of UK Water Regulations/Bye-laws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers. The installation should be carried out by a plumber or contractor who is registered, or is a member of, an association such as:

1.7.1. Institute of Plumbing (I.O.P.) throughout the U.K.
1.7.2. National Association of Plumbing, Heating and Mechanical Services Contractors (N.A.P.H. & M.S.C.) England and Wales.
1.7.3. Scottish and Northern Ireland Plumbing Employer's Federation (S.N.I.P.E.F.) Scotland and Northern Ireland.

2. Typical suitable installations

Key to symbols



Float operated valve

Stop or servicing valve

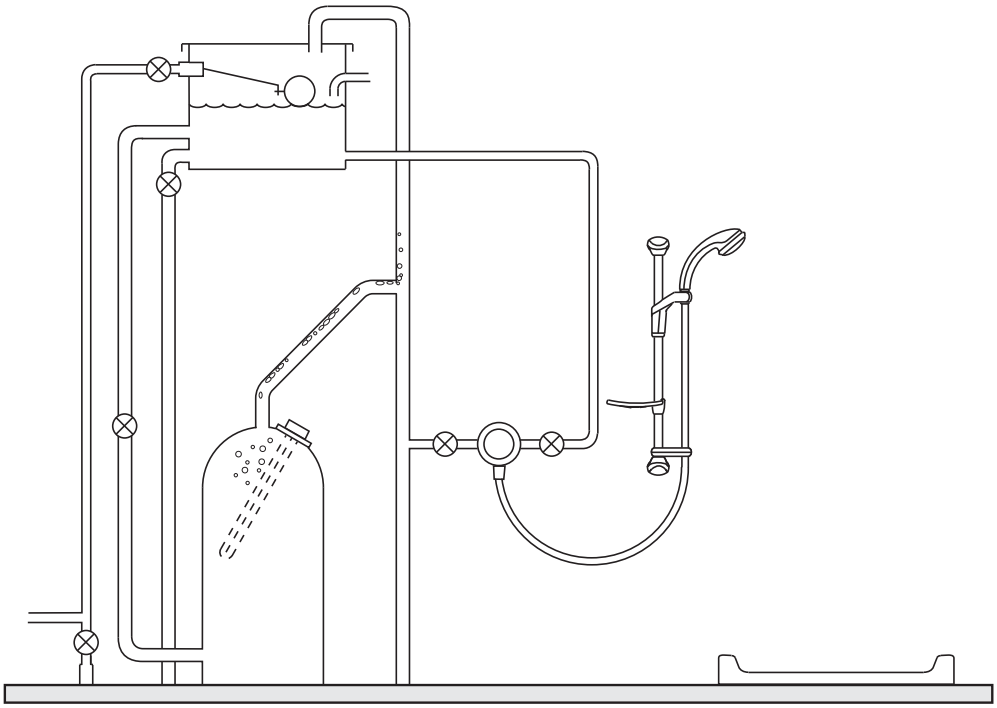
Shower control

Warning or overflow pipe

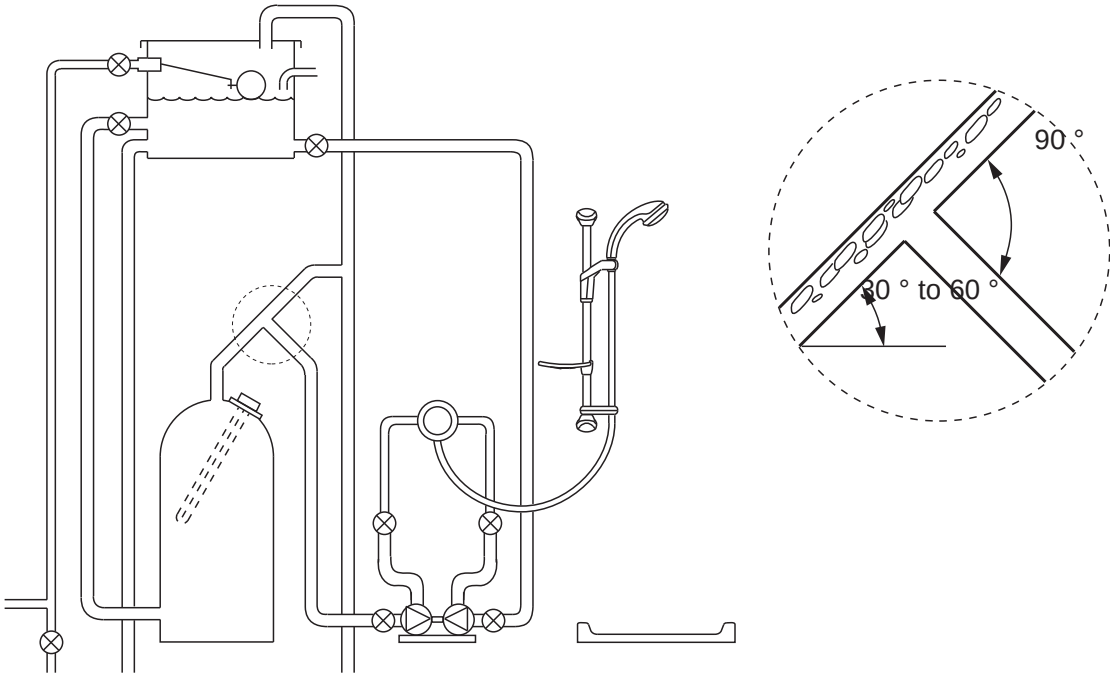
Twin impeller inlet pump

Single impeller outlet pump

2.1. Gravity fed showers - The shower control **MUST** be fed from a **cold water storage cistern** and **hot water cylinder** providing nominally equal pressures.

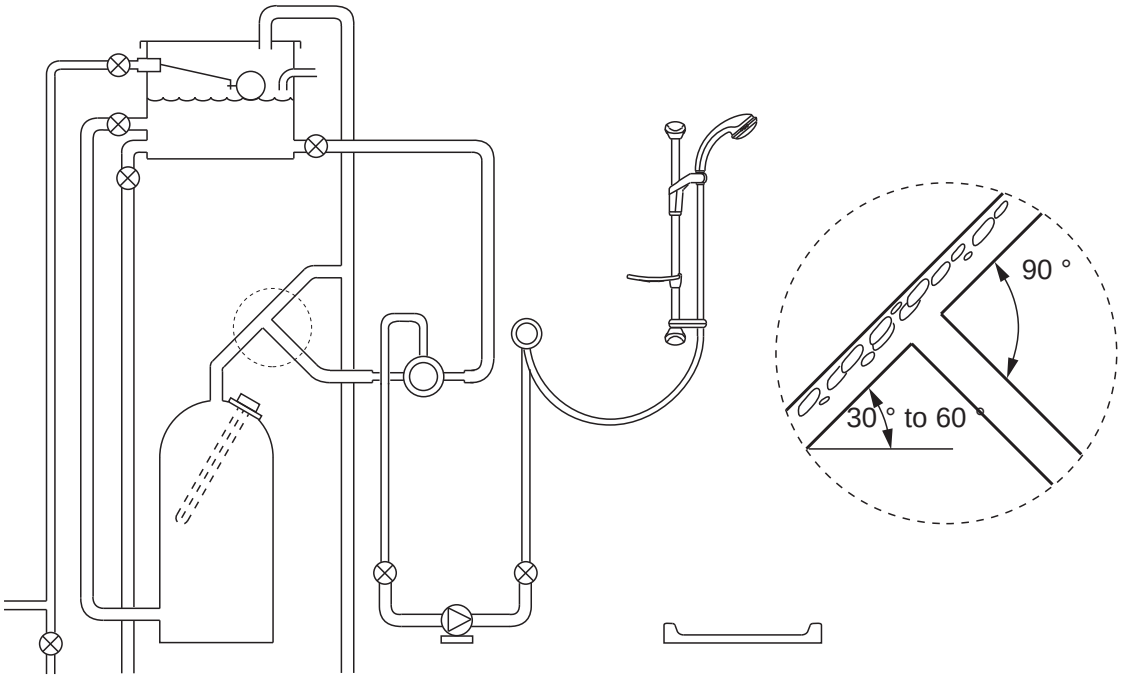


2.2. Pumped showers (inlet pumps) - The shower control can be installed with an inlet pump (twin impeller). The pump **MUST** be located on the floor next to the hot water cylinder. The hot water cylinder/vent pipes must be arranged as shown to achieve air separation.



Pumped Showers (inlet pumps)

2.3. Pumped showers (outlet pumps) - The shower control can be installed with an outlet pump (single impeller). The pump **MUST** be located on the floor near to the shower control. The hot water cylinder/vent pipe must be arranged as shown to achieve air separation.



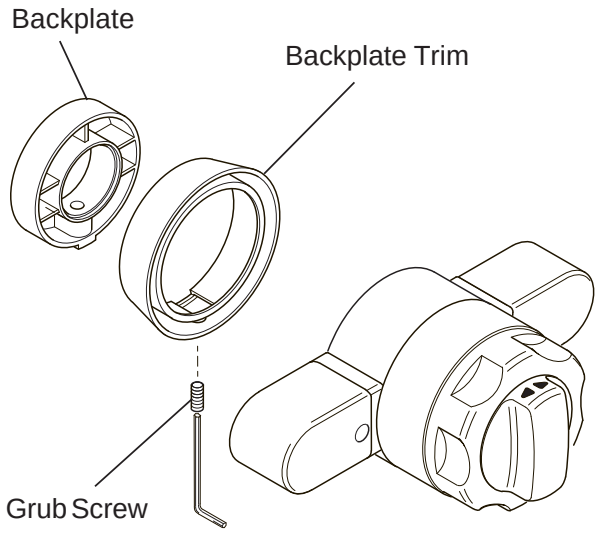
Pumped Showers (outlet pumps)

Section 6

Installation

Mira 88 - Surface Mounted Shower Control

1. Rising and falling inlet supplies



1.1. Determine whether the hot or cold water services will be connected to the shower control from the bottom (rising) or from top (falling).

1.2. The Mira 88 is supplied with inlet connections **hot left, cold right** and **bottom outlet** as standard.

1.3. Before deciding the final positioning of the shower control, please bear in mind the following:-

Consideration should be given with regard to positioning of the shower control and shower fitting. (Not applicable to rigid shower fittings).

Determine the position of the outlet in relation to the type of shower fitting used.

e.g. **Mira er-s:**
Select top outlet
Mira ev-s:
Select bottom outlet.

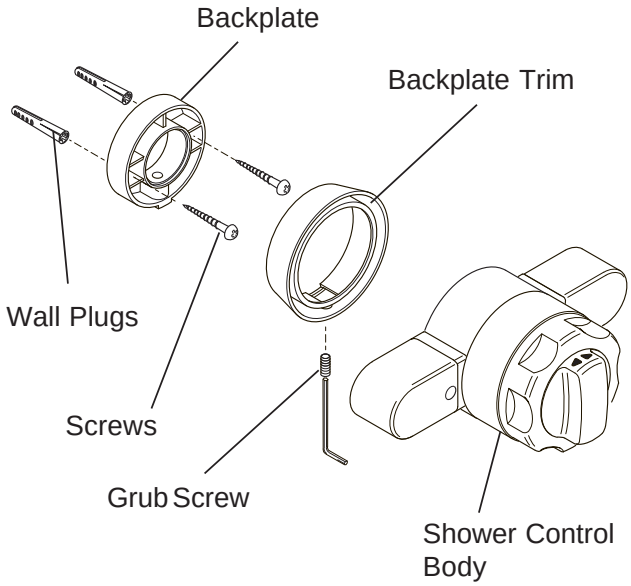
1.4. Install the hot and cold supply pipes at 153 mm centres.

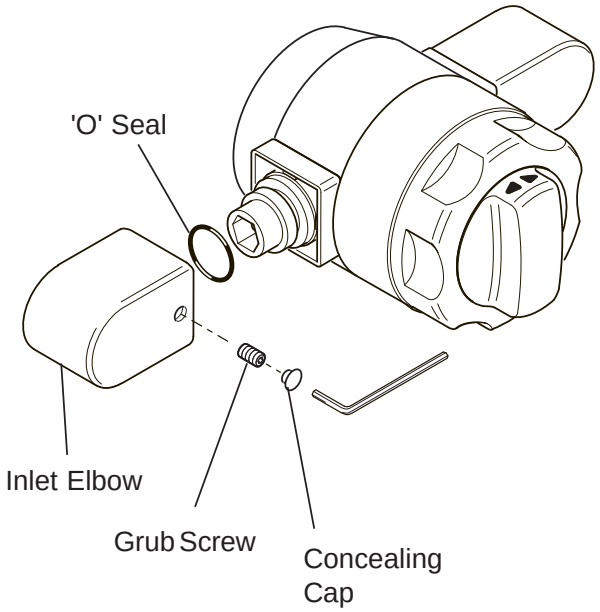
1.5. Loosen the backplate grub screws and using the 2.5 mm A/F hexagonal wrench provided, remove the backplate and backplate trim from the shower control body.

1.6. Mark through the backplate the position of the two holes ensuring that they are horizontally aligned.

1.7. Drill and suitably plug the two fixing holes. Secure the backplate to the wall with the screws and wall plugs provided, if suitable.

1.8. Place the backplate trim over the backplate. Locate the shower control body onto the backplate and secure by tightening the recessed grub screw using the 2.5 mm A/F hexagonal wrench (supplied).





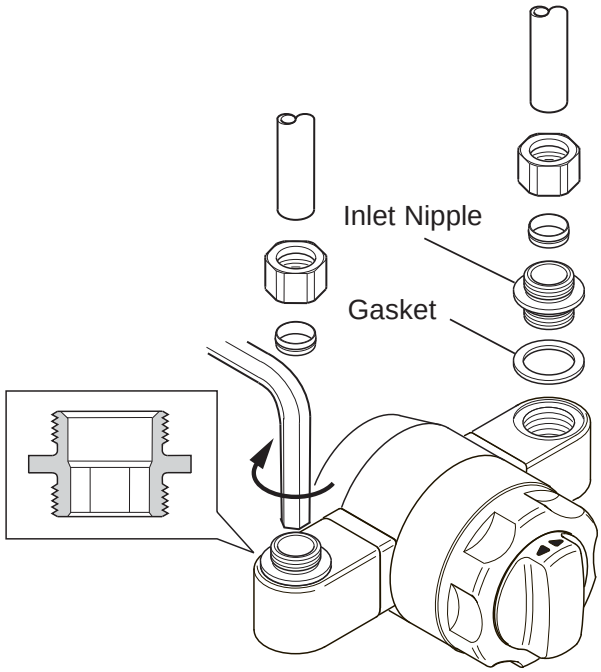
1.9. Adjust the inlet elbow to accept falling or rising supplies as follows:

Using the 2.5 mm A/F hexagonal wrench loosen the grub screws and remove the inlet elbows.

Ensure that the 'O' seal is on inlet connector, **not** in 'V' groove.

Turn the inlet elbows to the required position and refit onto the inlet connectors.

Tighten the grub screws to fix the inlet elbows and fit the concealing caps.



1.10. Fit the gaskets to the short inlet nipples and screw the nipples with tapered ends outermost to accept the compression fittings.

1.11. Tighten the nipples fully with a 12 mm A/F hexagonal wrench (not supplied).

1.12. **Thoroughly flush the incoming hot and cold water supply pipes before connecting the shower control**.

1.13. Slip the compression nuts and olives over the supply pipes and then make the connection to the inlet pipework. Make sure that you protect the plated surfaces.

1.14. Fit the 'O' seal to the tapered end of the outlet nipple and screw into the shower control outlet using a 12 mm A/F wrench (not supplied). This will leave a flat face for connection to the shower hose.

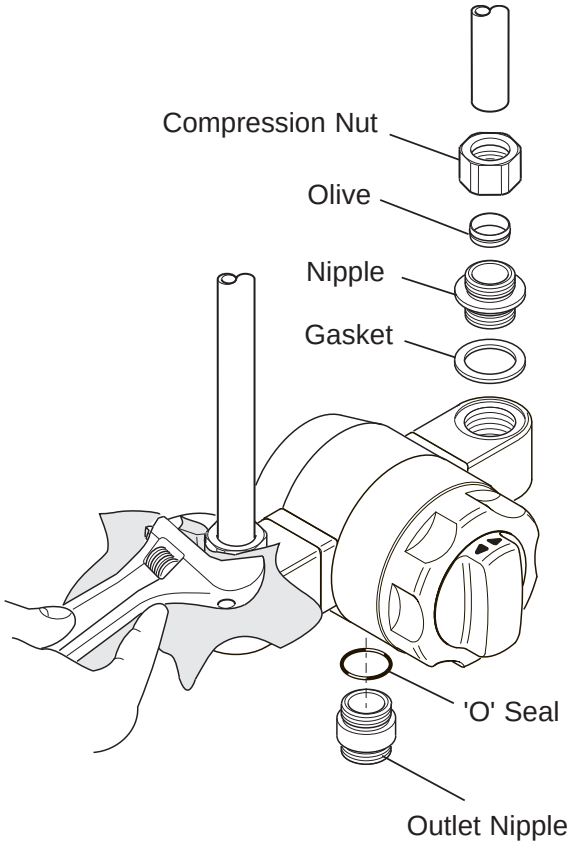
1.15. Turn on the water supplies and check for any leaks.

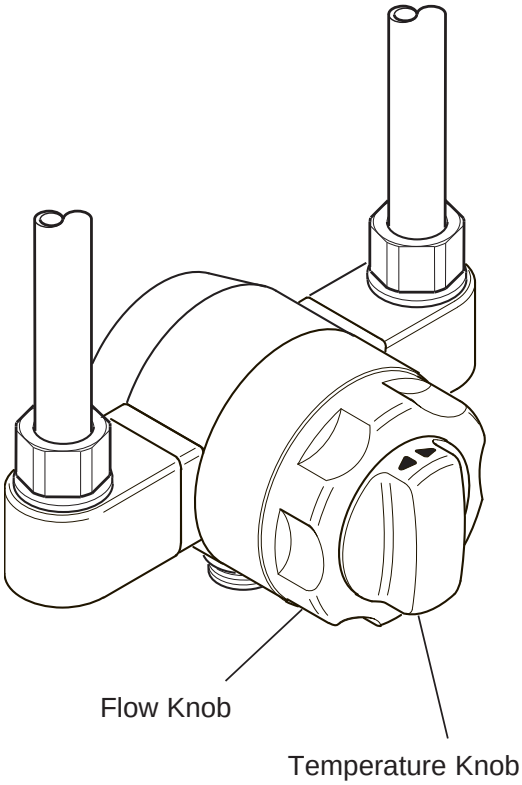
1.16. Turn the flow knob fully anticlockwise for water flow. Operate temperature knob and ensure directional hot and cold indicators are correct.
HOT = anticlockwise
COLD = clockwise
Turn flow knob fully clockwise to stop water flow.

Note! An alternative temperature knob is available from Mira Customer Support for reversed Hot and Cold inlet supplies.

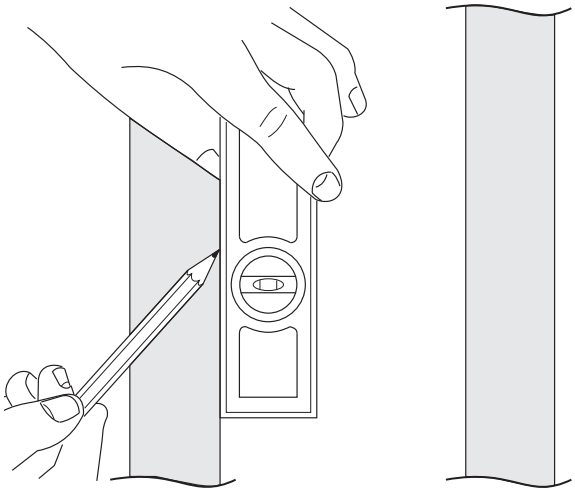
The temperature knob incorporates two large keyways to assist location of the knob on to the temperature spindle.

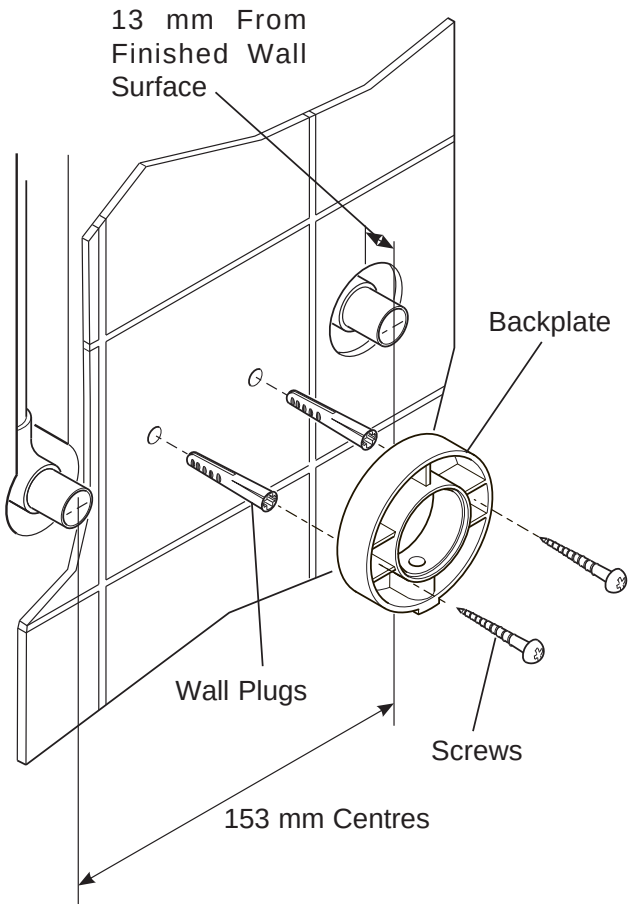
1.17. This completes the installation of the **Mira 88** for connection to **"rising inlet and falling inlet supplies"**.





2. Back inlet supplies





2.1. Use a spirit level and a pencil to mark the route for the hot and cold water supply pipes at 153 mm centres.

2.2. Remove the plaster and brick/ block to the required depth to conceal the pipework.

2.3. Follow the shower control installation procedure as for **"Rising inlet and falling inlet supplies": instructions 1.1** to **1.4.**

2.4. Install the supply pipes. The pipes must project from the finished wall by **13 mm**. Finish the surface of the wall as required. The recesses in the wall for the concealing plates must be 32 mm diameter x 10 mm deep.

2.3. Follow the shower control installation procedure as for **"Rising inlet and falling inlet supplies": instructions 1.5** to **1.7.**

2.4. Fit the gaskets to the short inlet nipples and screw the nipples with the tapered ends outermost to accept the compression fittings.

Tighten the nipples fully with a 12 mm A/F hexagonal wrench (not supplied).

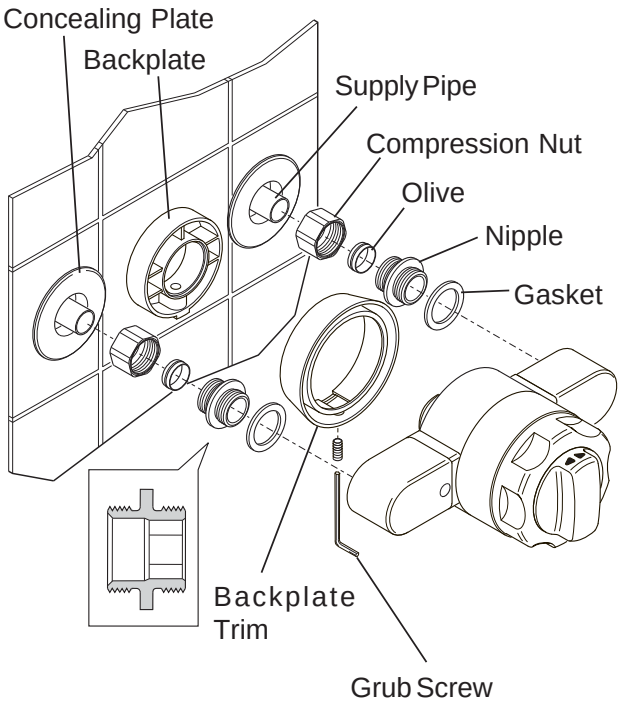
2.5. Fit the concealing plates over the pipework into the enlarged recesses in the finished wall surface.

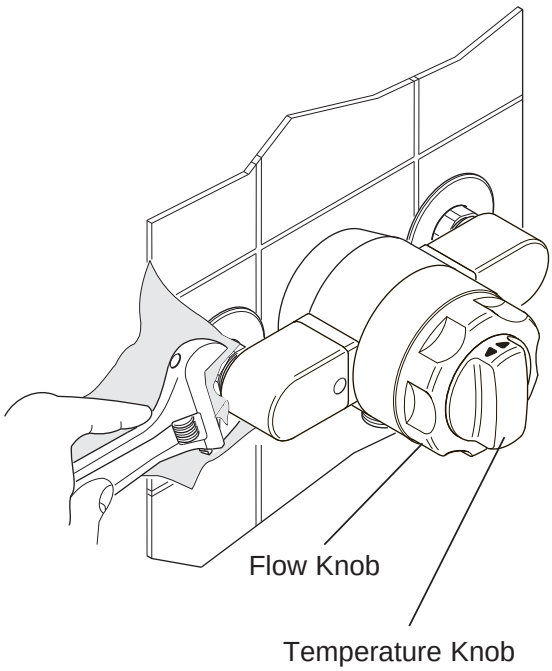
2.6. **Thoroughly flush the incoming hot and cold water supply pipes before connecting the shower control**.

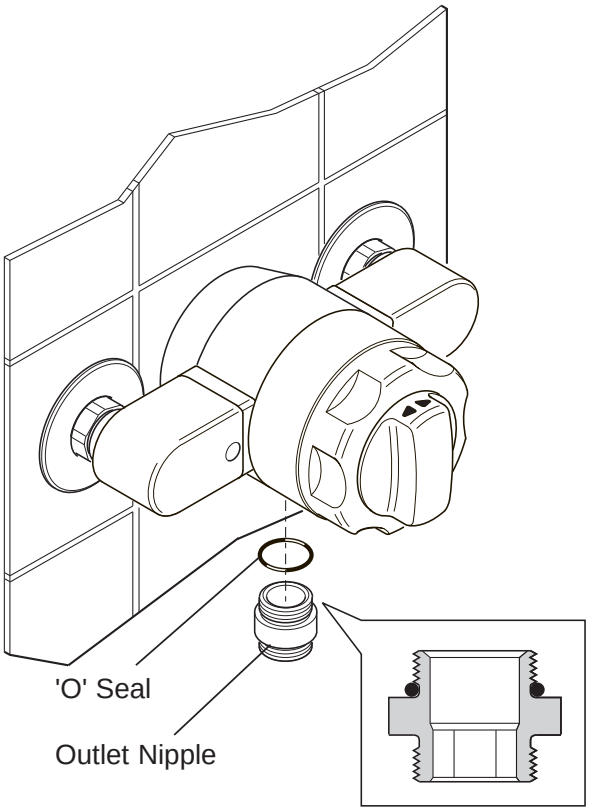
2.7. Slip the compression nuts and olives over the supply pipes.

Place the backplate trim over the backplate. Locate the shower control body onto the backplate and secure by tightening the grub screw using the 2.5 mm A/F hexagonal wrench (supplied).

Make the connections to the inlet pipework. Make sure that you protect the chrome plated surfaces whilst you tighten the compression nuts







2.8. Fit the 'O' seal to the tapered end of the outlet nipple and screw into the shower control outlet using a 12 mm A/F hexagonal wrench (not supplied). This will leave a flat face for connection to the shower hose.

2.9. Turn on the water supplies and check for any leaks.

2.10. Turn the flow knob fully anticlockwise for water flow. Operate temperature knob and ensure directional hot and cold indicators are correct.

HOT = anticlockwise
COLD = clockwise
Turn flow knob fully clockwise to stop water flow.

Note! An alternative temperature knob is available from Mira Customer Support for reversed Hot and Cold inlet supplies.

2.11. This completes the installation of the **Mira 88** for connection to **"Back inlet supplies"**.

Mira 88 B - Built-in Shower Control

The built-in shower control is designed to be concealed into a solid or dry-lined wall structure. A support bracket assembly (optional accessory) is available which can be used to fix the shower control into a shower cubicle, laminated panel, stud partition or dry partition wall.
The building-in depth (to the finished wall surface) is between **50** and **68 mm** The building-in depth dictates how much of the flow and temperature control knob will be visible through the concealing plate when the installation is completed.

A building-in shroud is supplied which protects the shower control during plastering and tiling and provides a reference for the building-in depth when chasing out the wall.
The shower control is not supplied with any interconnecting pipework or plumbing fittings. Inlet and outlet threads are 1/2" BSP female parallel.

3. Solid or dry-lined wall structures

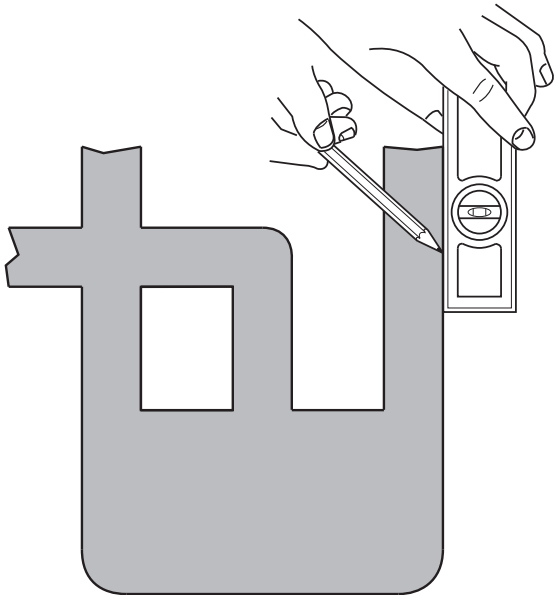
3.1. Make a recess in the wall large enough for the shower control, pipework and plumbing connections.

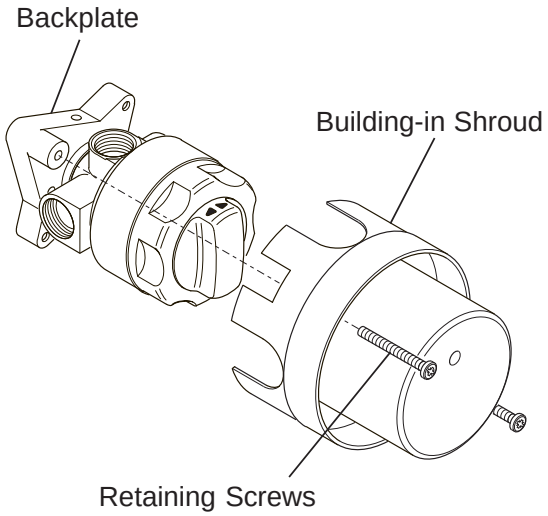
Ensure that the building-in depth is correct.

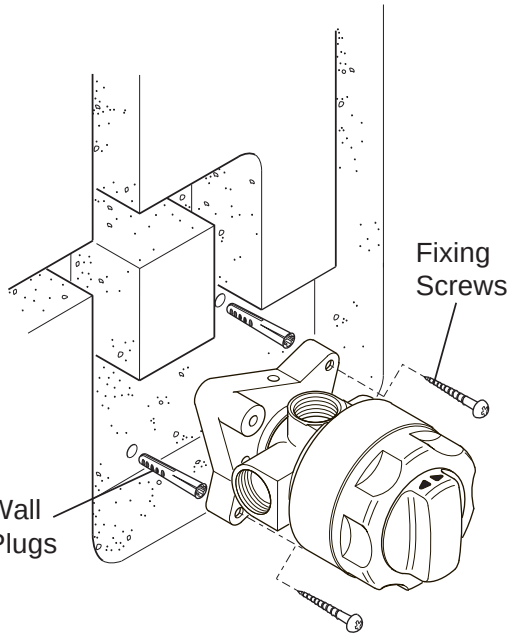
3.2. Remove the plastic building-in shroud. The two building-in shroud retaining screws should be screwed temporarily into the base for use later.

3.3. Drill and plug the fixing holes. Using screws provided, if appropriate, fix shower control and backplate assembly into recess (Ensure that shower control inlets are horizontal with shower control outlet at the top).

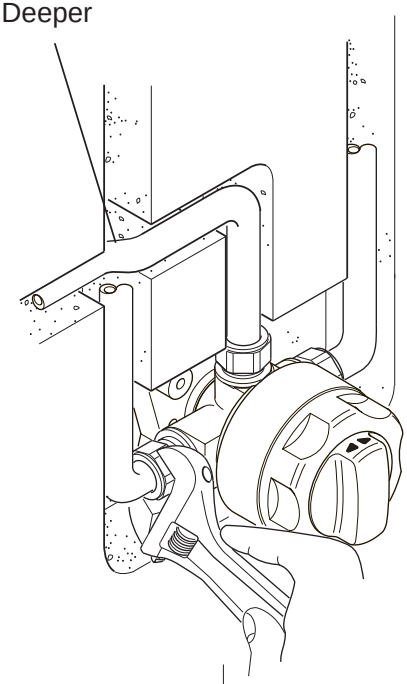
3.4. Install the hot and cold supplies to the shower.

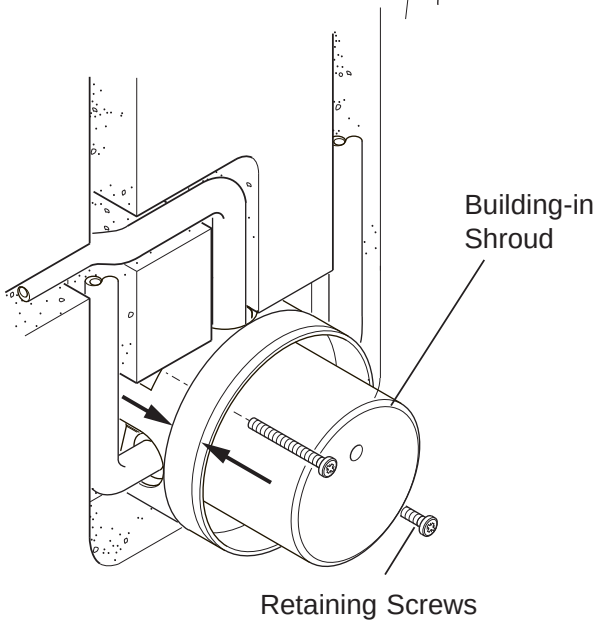






Pipework Set Deeper





3.5. **Thoroughly flush the incoming hot and cold water supply pipes before connecting the shower control**.

3.6. Make the connections to the incoming hot and cold water supply pipes and outlet supply pipe (install appropriate outlet shower fitting).

3.7. Turn on the water supplies and check for any leaks.

3.8. Refit the plastic building-in shroud over the shower control body and secure with the two shroud retaining screws removed in instruction **3.2.**

Plaster and tile up to the sides of the plastic building-in shroud and when set remove the shroud, but retain the screws for use later.

To ensure that the supply pipework is able to maintain free movement in a solid wall and is protected, it is suggested that each pipe is concealed into suitably sized conduit.

3.9. Pull off the temperature knob and gently prise off circlip using a screwdriver and pull off the flow control knob.

Caution! The foam seal **MUST** be fitted to prevent water entering the wall recess.

3.10. Place the foam seal over the cover of the shower control, behind the white ring aligning the holes in the foam seal with the holes in the backplate assembly.

Fit the concealing bracket assembly over the foam seal and secure with the two shroud retaining screws.

3.11. Fit flow knob and circlip.

Ensure that the flow knob is free to rotate after the foam seal has been fitted.
Note! If the shower control is recessed too deep the two shroud retaining screws will not reach the backplate assembly.

3.12. Install the shower fitting (refer to separate installation guide).

3.13. Turn the flow knob fully anticlockwise for water flow. Fit the temperature knob.

Note! The temperature knob incorporates two large keyways to assist location of the knob on to the temperature spindle.

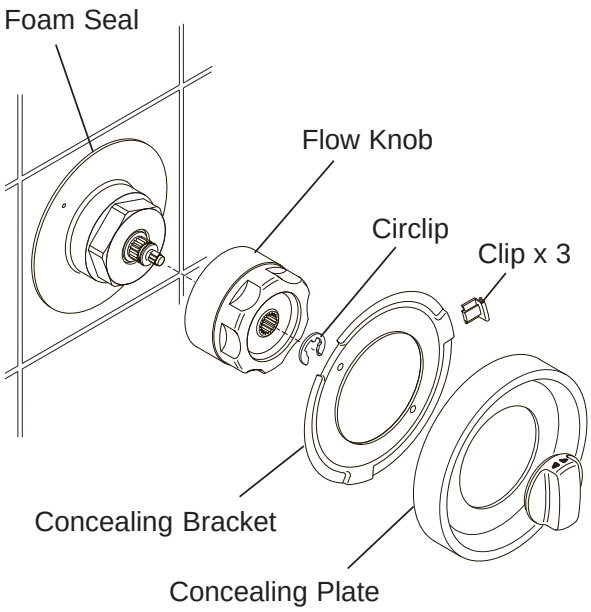
Operate temperature knob and ensure directional hot and cold indicators are correct.

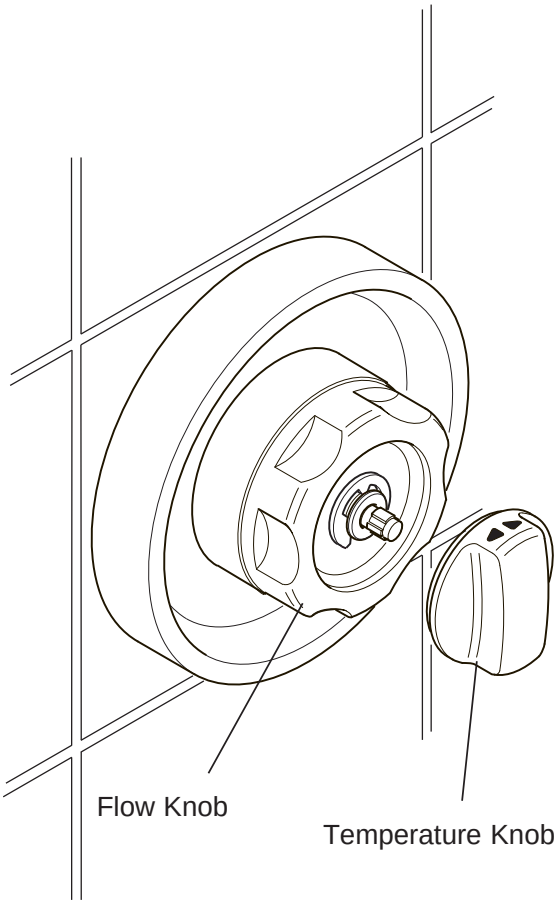
HOT = anticlockwise
COLD = clockwise
Turn flow knob fully clockwise to stop water flow.

Note! An alternative temperature knob is available from Mira Customer Support for reversed Hot and Cold inlet supplies.

3.14. Push the concealing plate firmly over the concealing bracket assembly until it locates on the three clips.

3.15. This completes the installation of the **Mira 88 B** into **"Solid or dry-lined wall structures"**.





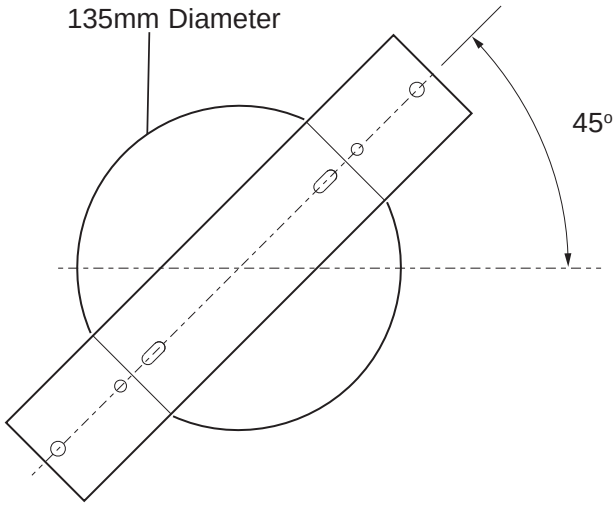
4. Stud partition or dry partition wall structures

The support bracket (optional accessory) has been designed to allow the shower control to be installed into the front face of a stud partition wall and is recommended to this type of installation. However, installers may wish to consider other options such as fabricated rear supports using wooden noggins, however, these methods of fixing are beyond the scope of this guide.

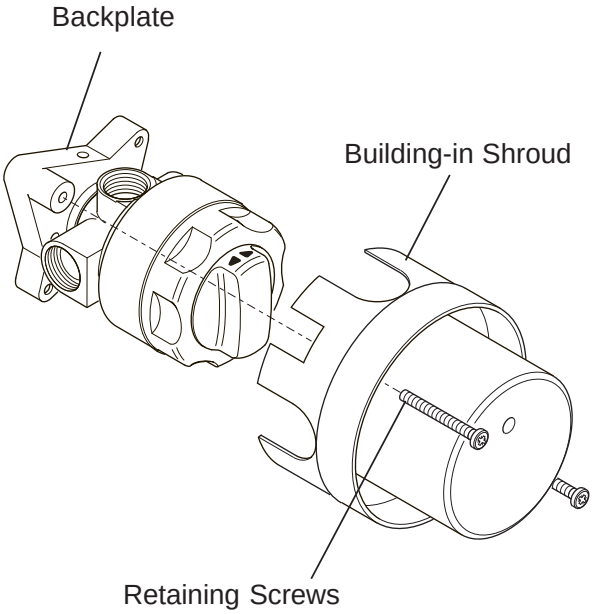
The building-in depth (to the finished wall surface) is between **50** and **68 mm** The building-in depth dictates how much of the flow and temperature control knob will be visible through the concealing plate when the installation is completed. The bracket must be fixed into a recess at an angle of **45°** from horizontal.

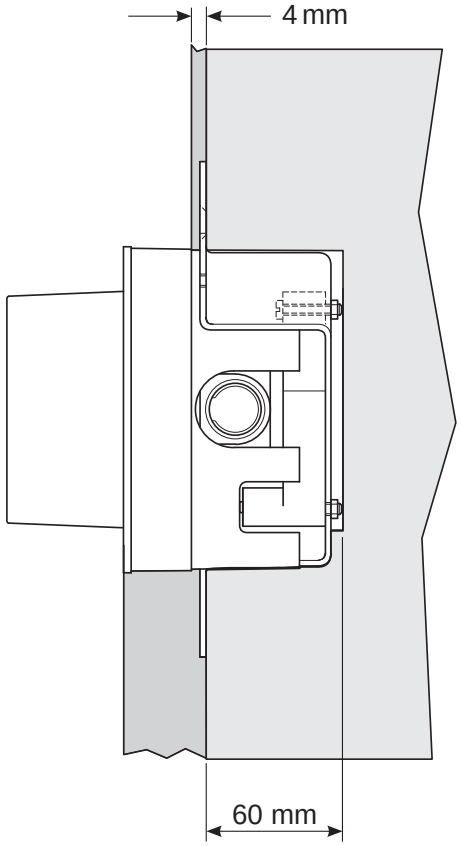
4.1. Cut a 135 mm diameter hole in the panel and mark the fixing holes for the support bracket (if used) at 45°.

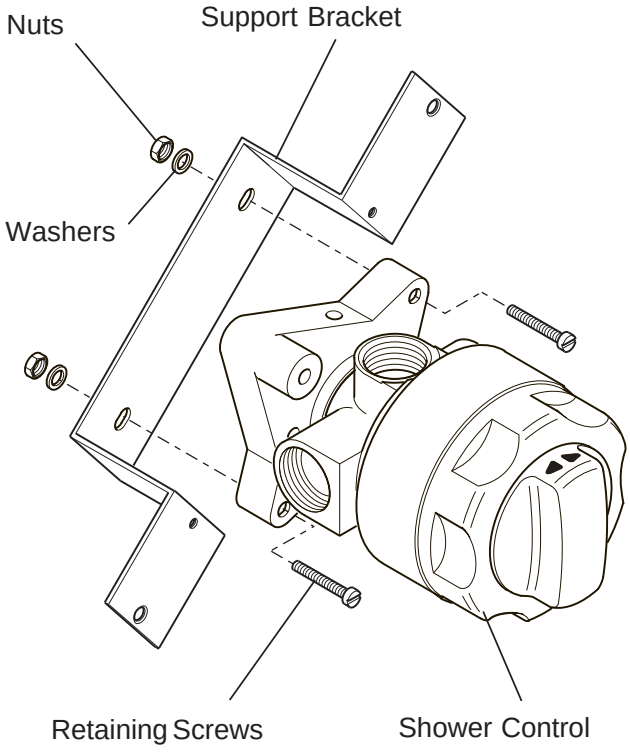
Ensure that the building-in depth is correct.



4.2. Remove the plastic building-in shroud. The two building-in shroud retaining screws should be screwed temporarily into the backplate for use later.







4.3. Fix the shower control to the support bracket with the screws, nuts and washers supplied.
Fix the support bracket and shower control in position using suitable fixings (not supplied).

Note! The support bracket requires a clearance depth of **60 mm**, with a finished wall thickness of **4 mm**. The raised portion on the building-in shroud can be used as a depth gauge. Wall thicknesses in excess of 4 mm can be accommodated, but clearance will be required around the inlet and outlet connections to allow insertion of pipe and tightening of compression nuts.

4.4. Drill and suitably plug the four marked fixing holes.

4.5. Secure the support bracket to the wall with the screws and plugs provided.

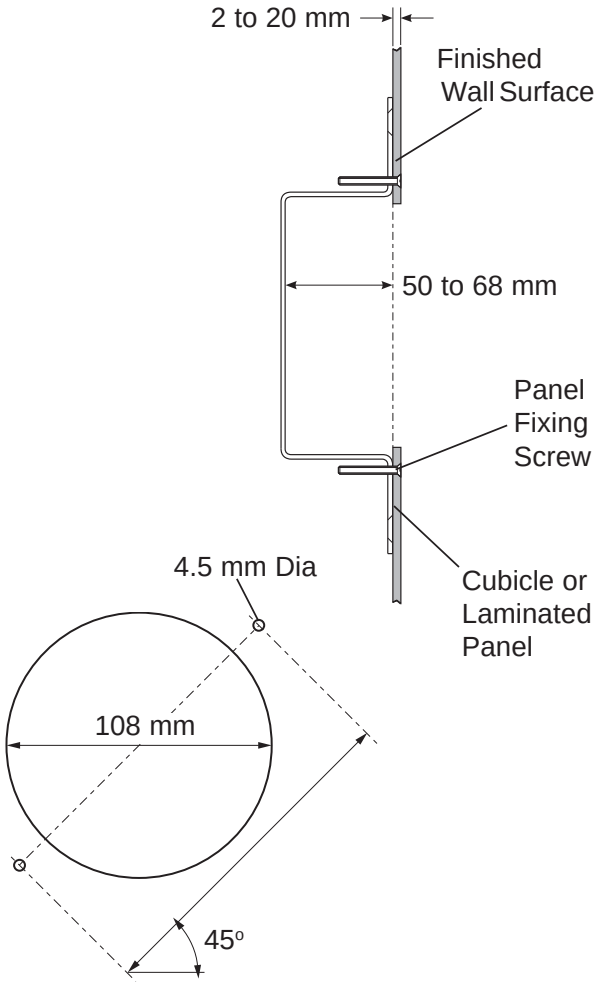
4.6. Follow the shower control installation procedure as for **"Solid or dry-lined wall structures"**: **instructions 3.4** to **3.14** inclusive to complete the installation.

5. Shower cubicle or laminated panel

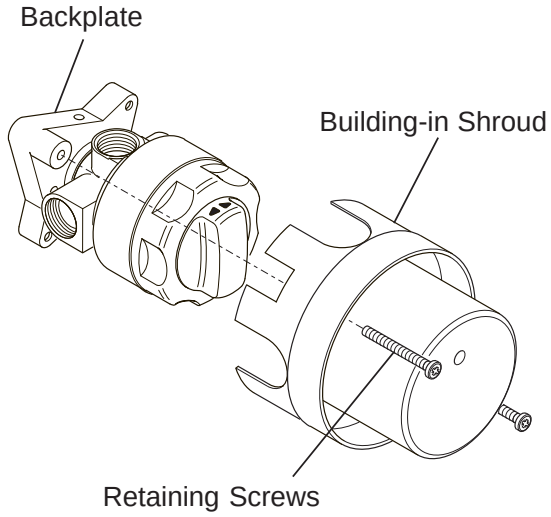
The support bracket (optional extra) is recommended to be used to fit the shower control into a shower cubicle or laminated panel **2 - 20 mm** thick.

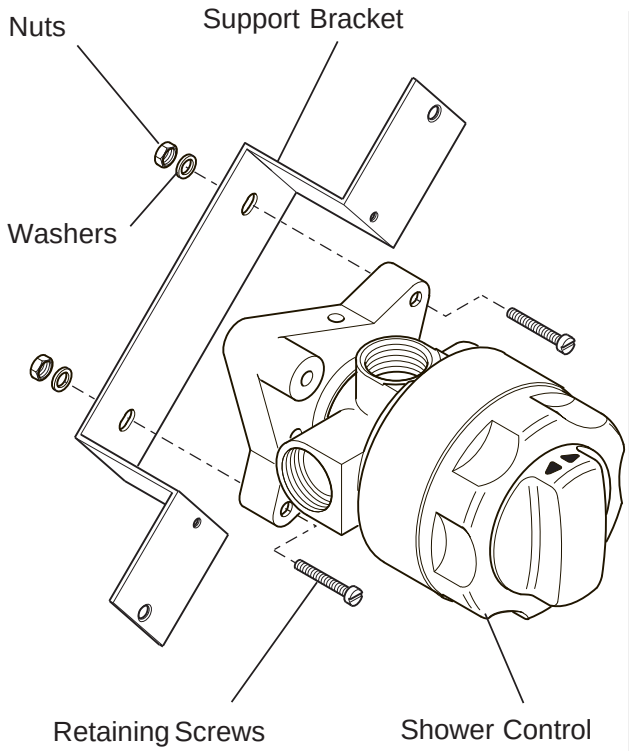
The dimension from bracket to finished wall surface is **50 - 68 mm**

5.1. Cut a **108 mm** diameter hole in panel and drill two **4.5 mm** holes at **138 mm** centres at an angle of **45°** from horizontal.

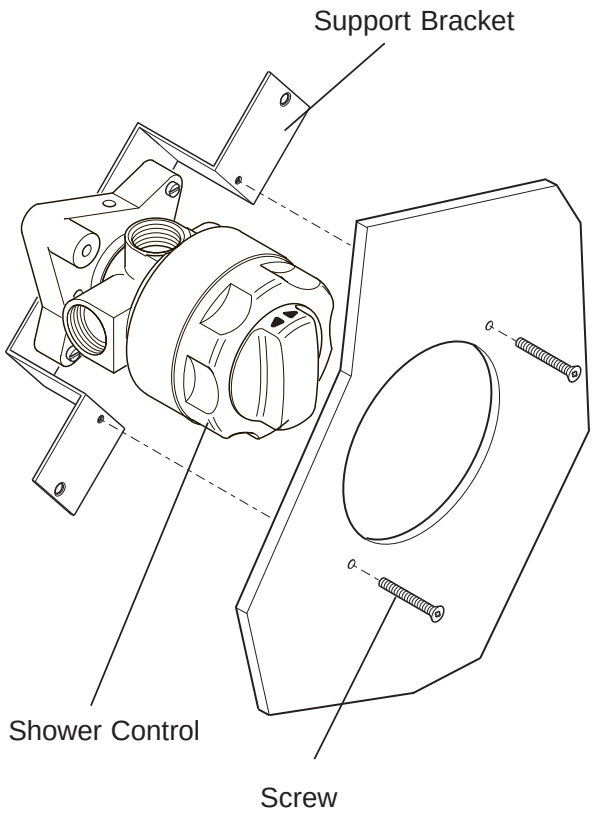


5.2. Remove the plastic building-in shroud. The two building-in shroud retaining screws should be screwed temporarily into the backplate for use later.





5.3. Fix shower control and backplate to support bracket with screws, nuts and washers supplied.



5.4. Secure the bracket to the wall with the screws provided.

5.5. Follow the shower control installation procedure as for **"Solid or dry-lined wall structures" instructions 3.4** to **3.7** and **3.9** to **3.14**.

Section 7

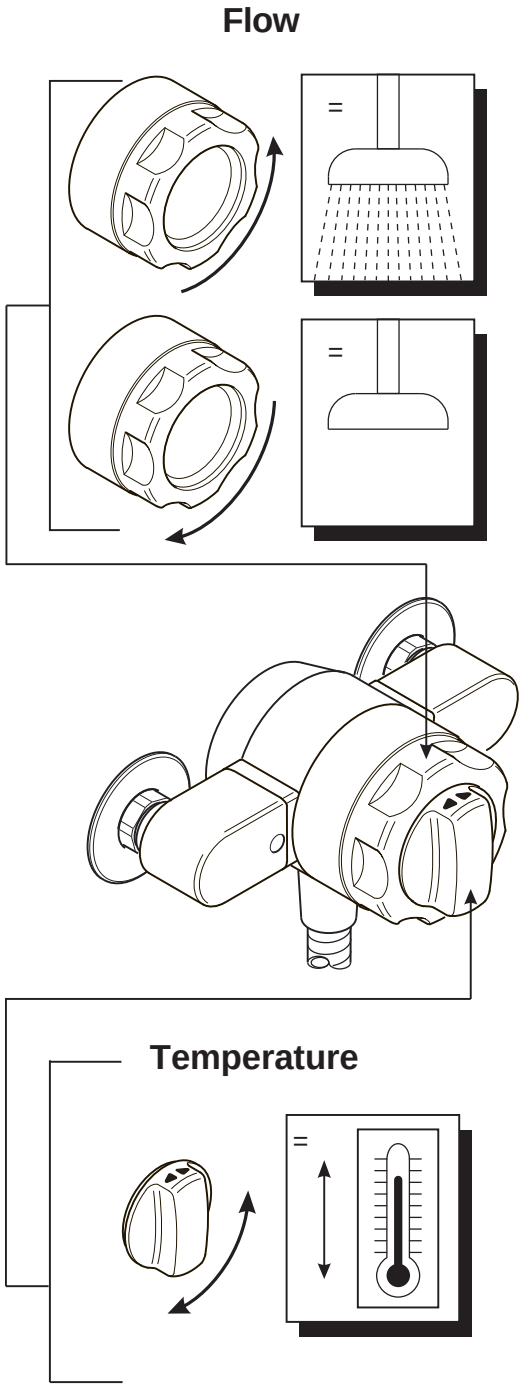
Operation

1. WARNING!

1.1. The temperature control can be turned from **FULL HOT** to **FULL COLD**. As such, turning the control to full hot will deliver water at the hot water storage temperature.

1.1. Turn the outer flow control knob until the desired force of water is obtained.

1.2. Turn the inner temperature control knob in the direction of the red arrow for warmer water and in the direction of the blue arrow for cooler water, until the desired temperature of water is obtained.



Section 8

Maintenance

1. Fault diagnosis

Read the section **"Important Safety Information"** first.
Mira products are fully performance tested after assembly. In the unlikely event that you experience problems with your shower the following procedure will enable you to undertake basic fault finding before contacting the Kohler Mira Service Office for further assistance or spare parts as necessary.

If after completing the checks no improvement in performance is experienced, then further investigation should be undertaken by the person responsible for installing your shower. Only competent persons should remove the cover of the shower control.

Malfunction	Cause	Remedy
Blend temperature insufficiently high.	a) Hot water used up. b) Hot water too cool, setting of hot water system (typically 60° - 65°C). c) Cold supply pressure too high relative to hot.	Wait to reheat. Check temperature. Refer to the section "**Installation Notes**" for plumbing advice.
No flow or low flow rate from shower head.	a) Spray plate blocked. b) Stop or servicing valve in supply pipe partially closed. c) Head of water below minimum required. d) Wrong handset or spray plates for available pressure.	Clean spray plate. Open valve/s. Raise cistern or fit Mira pump. Fit correct handset or change spray plates.
Drip from shower head *	a) Defective flow control seals, possibly caused by failure to flush pipework prior to	Obtain Seal Pack. Refer to the section "**Parts list**".
Drip from behind control knobs.	a) Defective spindle seals.	Obtain Seal Pack.

(Continued)

***A small amount of water may be retained in the shower head after the shower control has been turned off. This may drain off over a period of minutes and should not be confused with a "Defective flow control".**

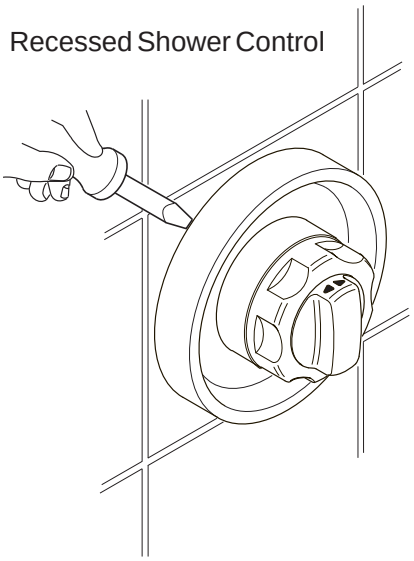
Malfunction	Cause	Remedy
Shower flow control	a) Impaired free movement of shower internals. b) Shower fitted to high pressure system eg. combination boiler. c) ('B' models only) Flow control knob binding	Descale and service Shower not designed for mains pressure systems. Fit Ensure seal fitted correctly and hole size

2. General

The Mira 88 shower control is precision engineered to provide satisfactory performance provided it is installed and operated in accordance with our recommendations contained in this guide.
Shower controls are mechanical devices and should be serviced annually depending on the water conditions. Areas of the country that are affected by hard water should consider shorter service intervals.
The dismantling procedure that follows will assist you with maintenance. A service pack is available which contains all seals and silicone grease necessary to service the shower control. The service pack is available from the Kohler Mira Customer Support Department, when ordering please quote the model of the shower control, part number and description of the items required (refer to Appendix 3, Spare Parts).
When installed in very hard water areas (above 200 p.p.m. temporary hardness) your installer may advise the installation of a water treatment device to reduce the effects of limescale formation.
You may, if you wish, choose to engage the services of a Mira Service Engineer or Agent, the terms of which are outlined on the back page of this guide.

3. Dismantling

Recessed Shower Control



3.1. Isolate the hot and cold water supplies to the shower control.

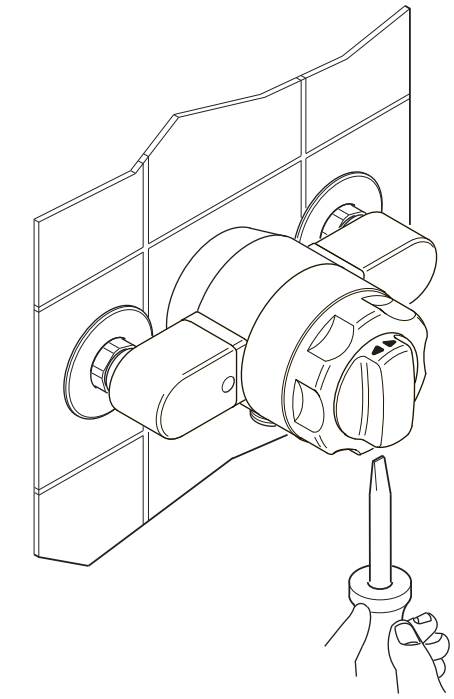
3.2. Open the flow control to release the pressure in the system.

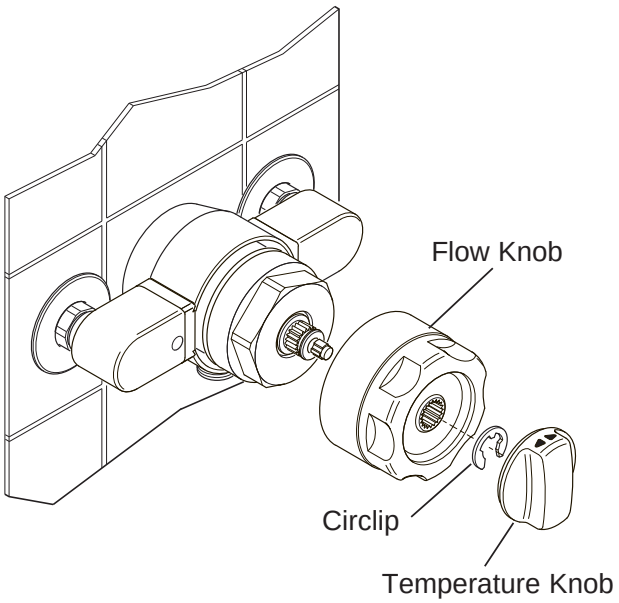
Note! Recessed models only; remove the concealing plate.

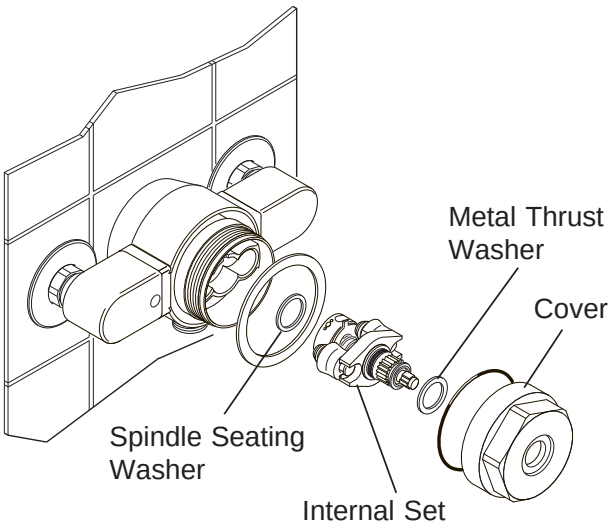
3.3. Remove the temperature control knob using a screwdriver.

A slot is provided on the side of the temperature knob to assist in removal.

Surface Mounted Shower Control







3.4. Gently prise off circlip using a screwdriver.

3.5. Pull off the flow knob.

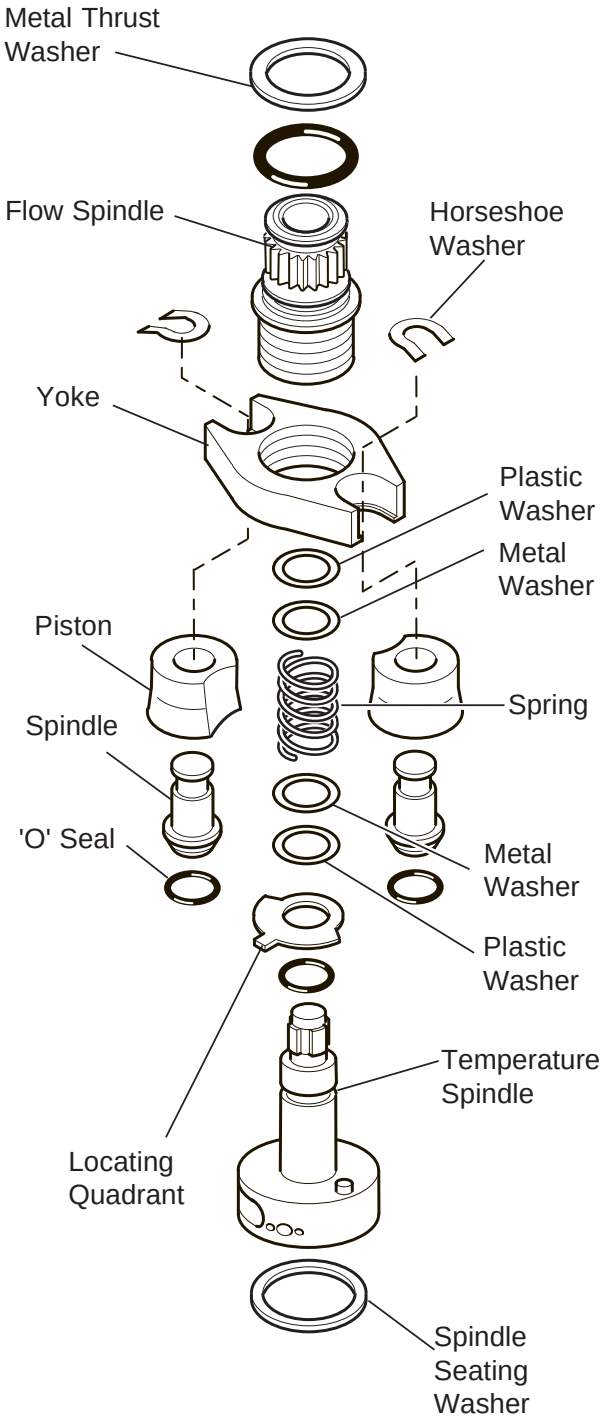
3.6. Unscrew the cover anticlockwise.

Recessed models; When the cover is removed some water will run from the body. Channel this water away or soak it up with absorbent material.

3.7. Remove the cover, identify and retain the metal thrust washer, which will be located on either the flow spindle or inside the cover.

3.8. Pull the internal set out of the shower control body (including the spindle seating washer).

4. Cleaning



4.1. Dismantle the internal set into its component parts and fit replacements if required.

4.2. Clean all metal components in descaling solution, following the manufacturer's instructions.

Clean all plated or plastic fittings with a mild detergent and wipe dry with a soft cloth.

Do not use abrasives or acid solutions.

CAUTION! DO NOT allow the descaling solution to come into contact with bathroom fittings and surfaces.

CAUTION! Thoroughly flush the shower control before use to remove any residual descalent solution which may be injurious to health.

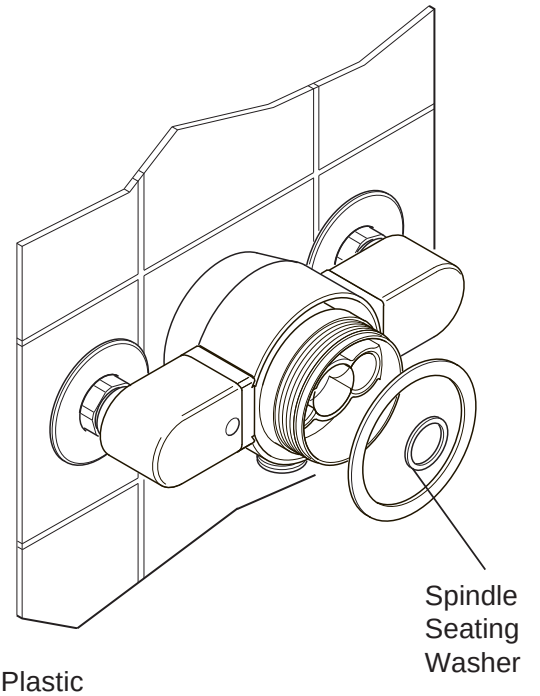
4.3. Renew all seals.

4.4. To assist re-assembly, lightly smear the 'O' seals, temperature and flow spindle with a silicone based lubricant.

Note! Do not use petroleum based lubricants as it will damage the 'O' seals.

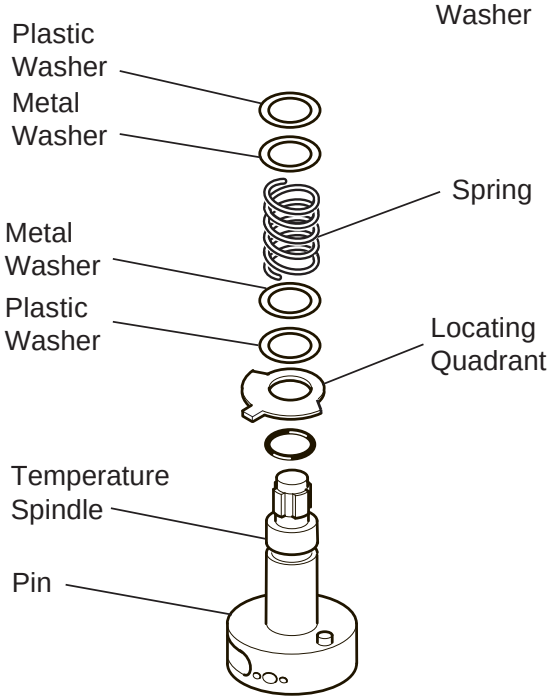
5. Re-assembly

5.1. Fit the spindle seating washer into the shower control body.



5.2. Place the locating quadrant over the temperature spindle.

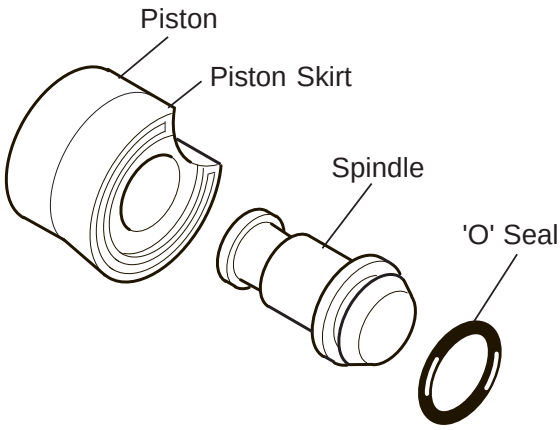
Note! Ensure that the pin of the temperature spindle is aligned within the cut out of the locating quadrant.

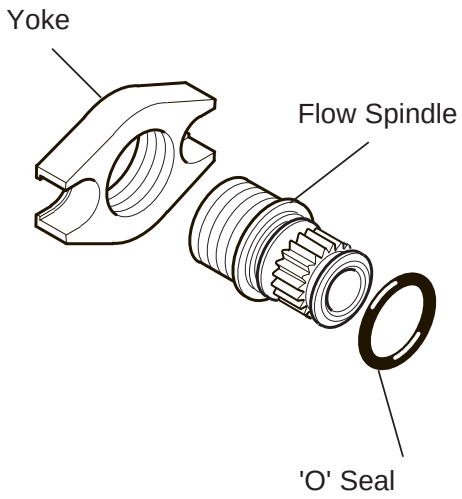


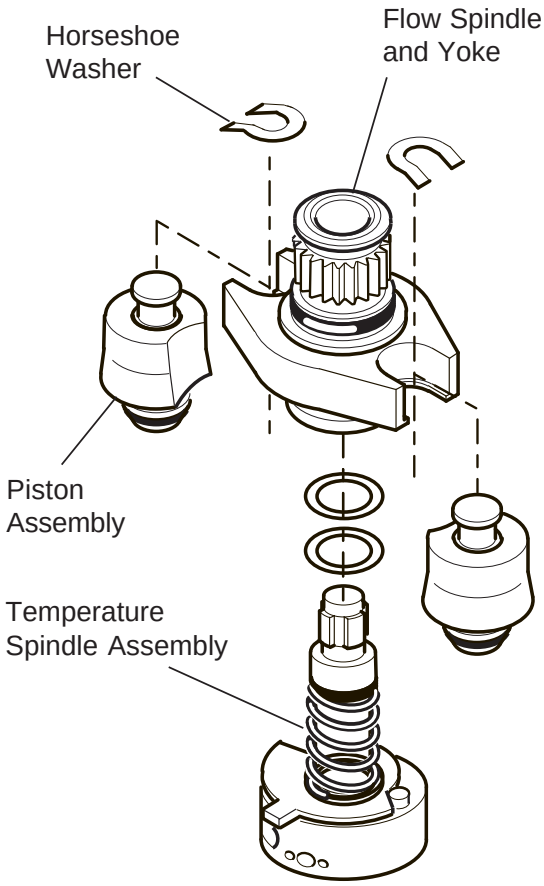
5.3. Reassemble the spring, metal and plastic washers on to the temperature spindle as illustrated.

5.4. Fit the piston spindles into the pistons.

Note! Ensure that the piston is fitted over the spindle widest end first.







5.5. Screw the greased flow spindle anticlockwise into the yoke.

5.6. Place the horseshoe washers into the yoke with the convex face upwards (as shown).

5.7. Push the piston and spindle assemblies into the yoke. Ensure that cutouts in the side of the pistons are both towards the flow spindle (i.e. towards the centre of the yoke).

5.8. Push the temperature spindle assembly through the flow spindle and yoke.

5.9. Unscrew the flow spindle slightly to allow the temperature spindle to fit between the two plastic pistons.

5.10. Squeeze the two pistons towards the centre of the yoke, until both pistons are touching the sides of the temperature spindle.

5.11. Squeeze the pistons together and gently push the internal set into the shower control body. Ensure that locating quadrant tab is correctly aligned with the body cutout.

Note! Care should be taken to avoid damage to the front skirt of the pistons when they are pushed into the shower control body.

5.12. Fit the metal thrust washer over the flow spindle.

5.13. Screw the cover onto the shower control body until it is finger tight, then turn the flow spindle fully anticlockwise (If necessary use the flow knob for added leverage).

Then tighten the cover onto the shower control body.

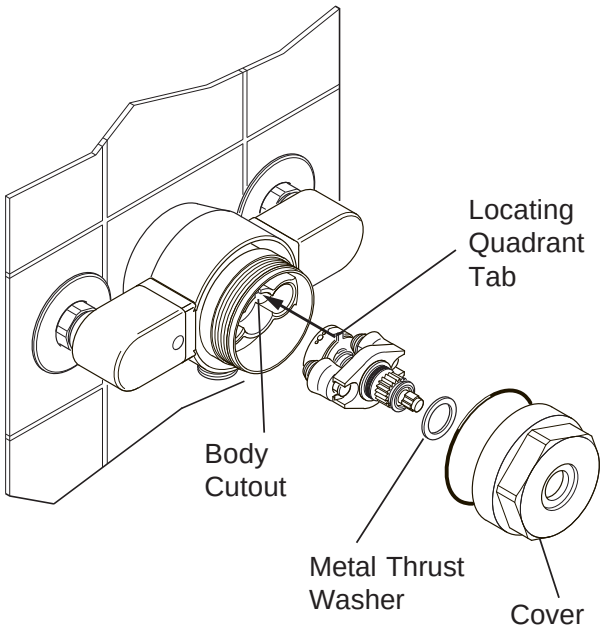
Check that the flow and temperature spindles move freely.

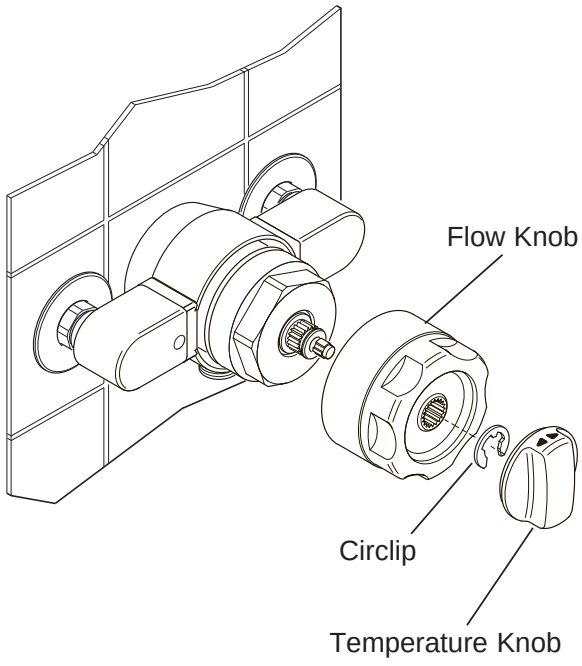
Note! If it cannot be moved too many thrust washers have been used or the cover has been tightened with the flow spindle turned to the off position.

5.14. Fit the flow knob and secure with a circlip.

5.15. Refit the temperature knob.

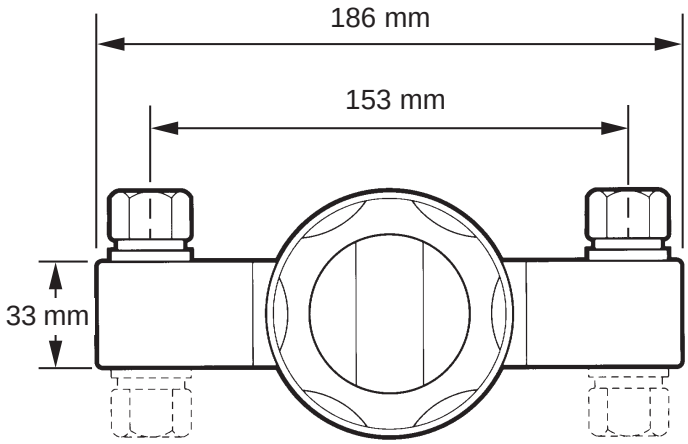
Restore the hot and cold water supplies to the shower control and check for leaks.

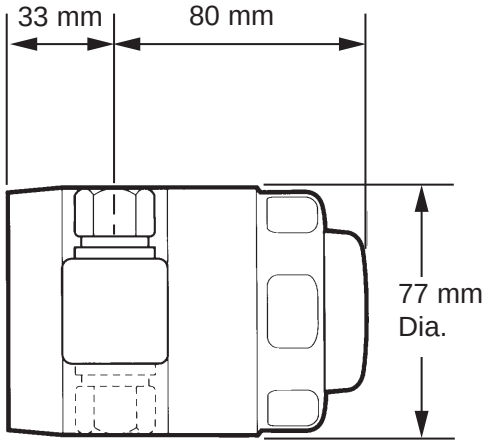


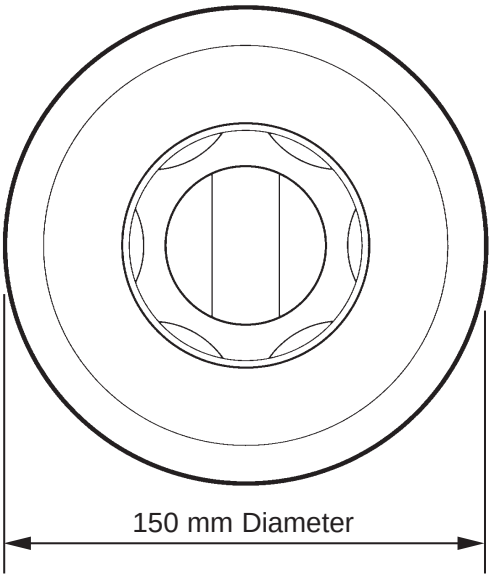


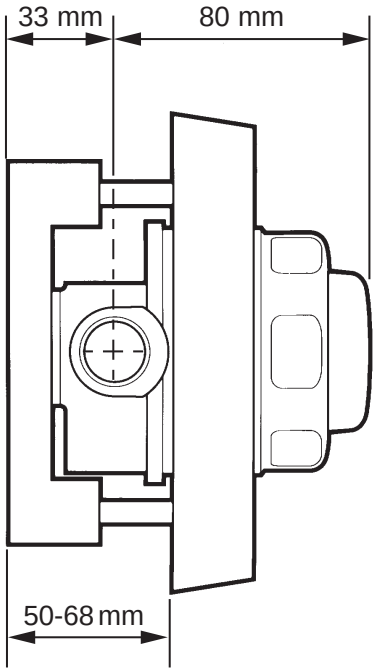
Appendix 1

Dimensions





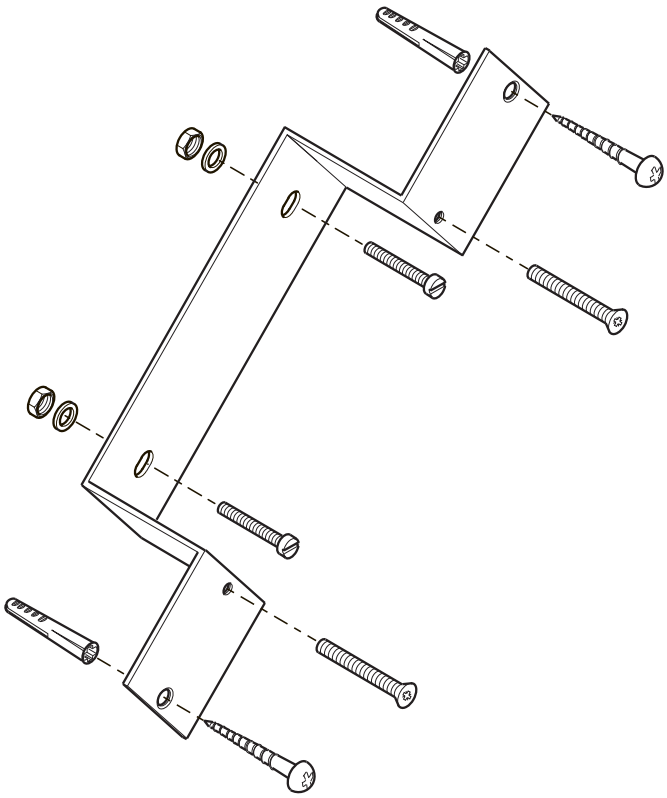




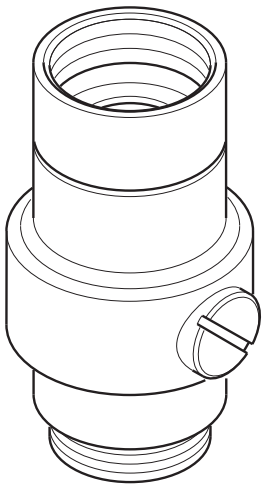
Appendix 2

Accessories

Support Bracket: Allows the shower control to be fitted into a shower cubicle, stud partition or dry partition wall. Available as optional accessory from your Mira stockist.



DCV-H: An outlet double check valve, requiring a minimum inlet supply pressure of 0.5 bar, which has been designed to prevent the backflow or backsiphonage of potentially contaminated water, through shower controls which are fitted with a flexible hose as part of the outlet shower fitting. Available as an optional accessory from your Mira stockist.



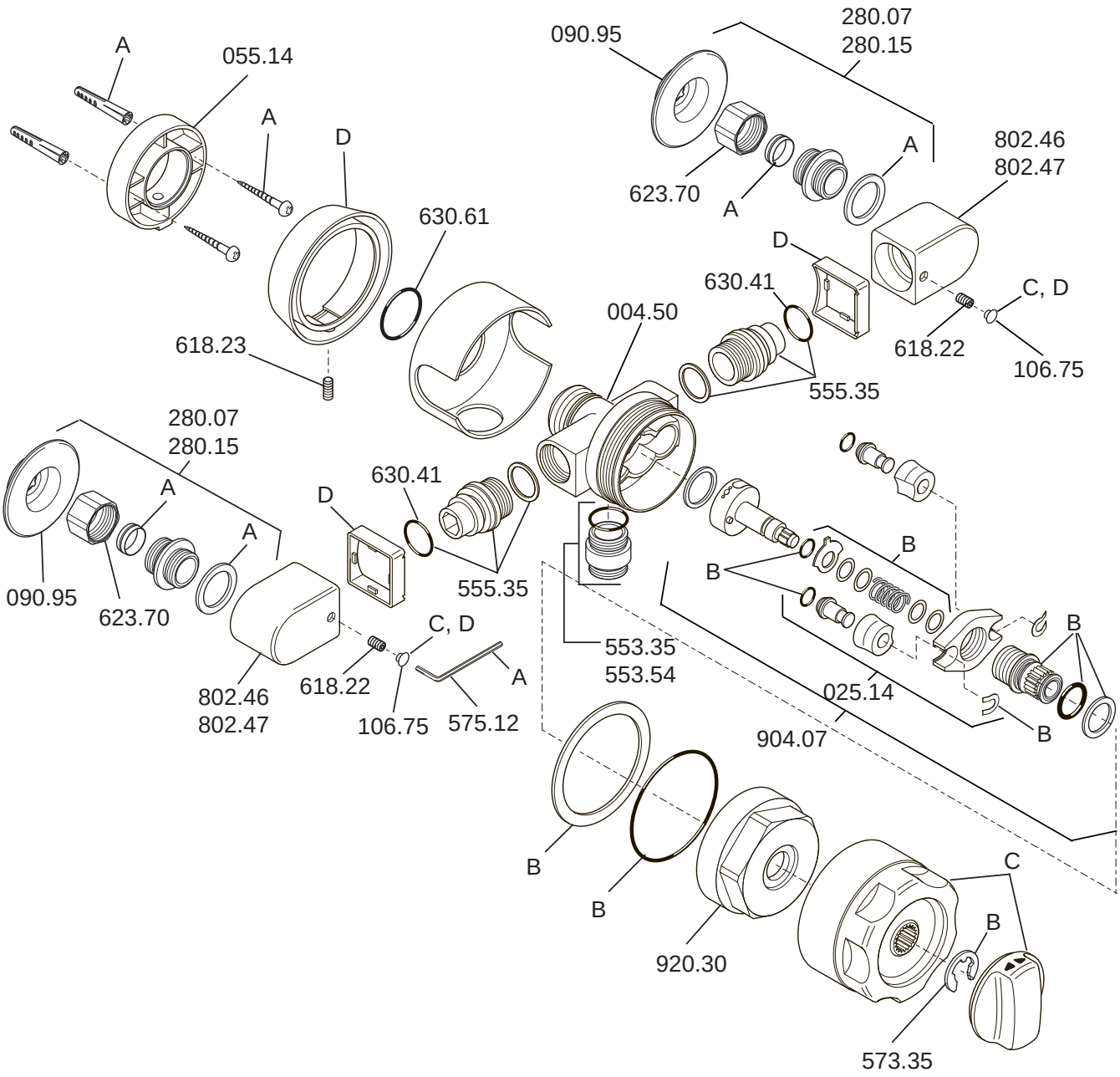
Appendix 3

Spare Parts

1. Mira 88 spare parts list

004.50	Body
025.14	Piston Assembly
052.11	Backplate Assembly (Built-in models)
055.14	Backplate Assembly
079.42	Body Shroud - light golden
079.45	Body Shroud - chrome
090.95	Pipe Concealing Plate - chrome
106.75	Concealing Cap - white
280.07	Compression Fitting Assembly - chrome
280.15	Compression Fitting Assembly - light golden
553.35	Nipple Assembly - chrome
553.54	Nipple Assembly - light golden
555.35	Inlet Connector Assembly
573.35	Circlip
575.12	2.5 mm A/F Hexagonal Wrench
618.22	Grub screw
618.23	Grub screw
623.70	Compression Nut - chrome
630.41	'O' Seal
630.61	'O' Seal
631.30	'O' Seal
802.46	Inlet Elbow Assembly - chrome
802.47	Inlet Elbow Assembly - light golden
805.31	Concealing Bracket Assembly
904.07	Internal Set
911.06	Temperature Spindle Assembly
920.30	Cover Assembly
933.25	Component Pack 88 - components identified 'A'
936.12	Service Pack - components identified 'B'
937.84	Knob Pack - components identified 'C'
937.07	Trim Pack - components identified 'D'

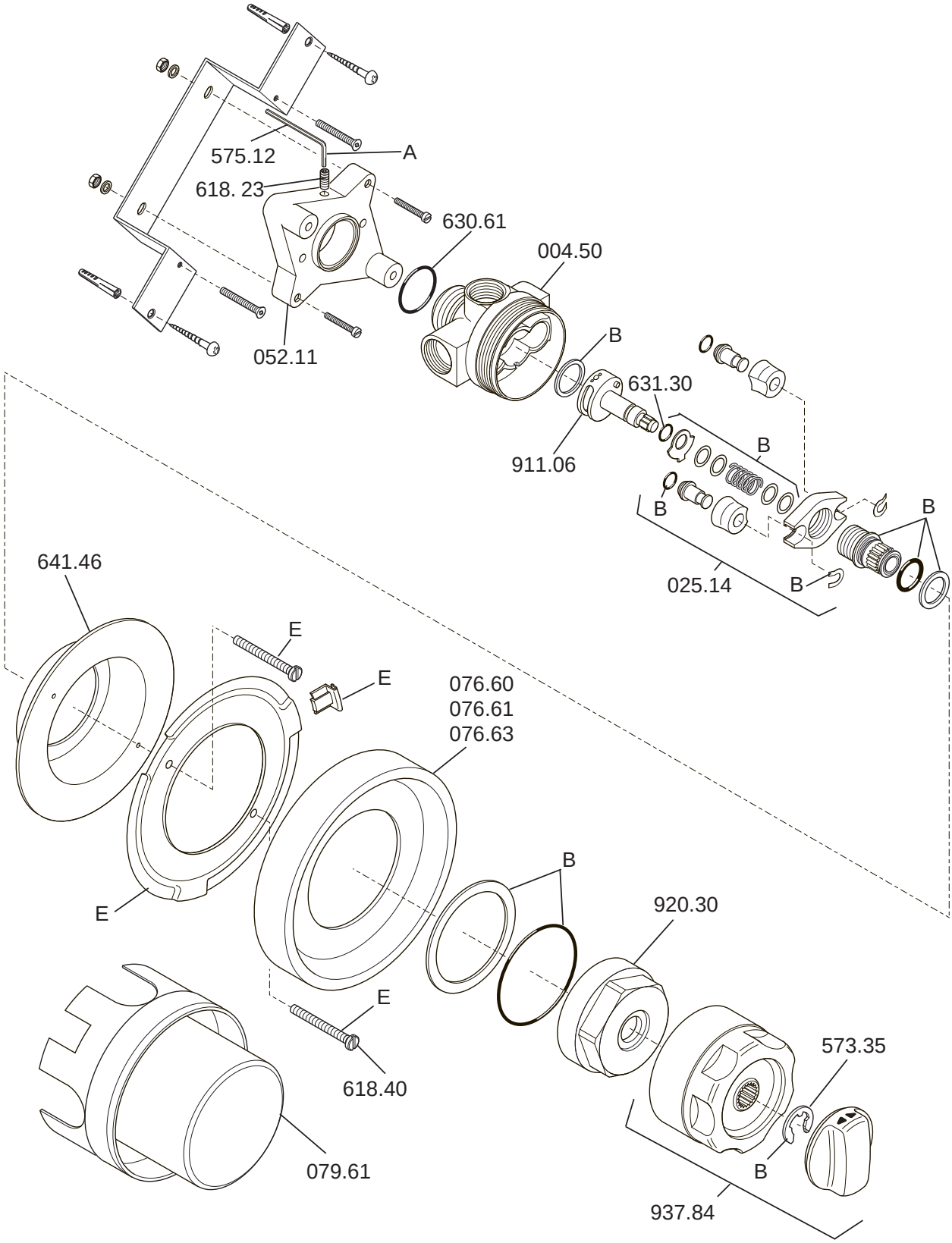
2. Mira 88 spare parts diagram



3. Mira 88 B spare parts list

004.50	Body
025.14	Piston Assembly
052.11	Backplate Assembly
076.60	Concealing Plate - chrome
076.61	Concealing Plate - light golden
076.63	Concealing Plate - white
079.61	Building-in Shroud
573.35	Circlip
575.12	2.5 mm A/F Hexagonal Wrench
618.23	Grub screw
623.70	Compression Nut - chrome
630.41	'O' Seal
630.61	'O' Seal
631.30	'O' Seal
641.46	Foam Seal
805.31	Concealing Bracket Assembly - components identified 'E'
904.07	Internal Set
911.06	Temperature Spindle Assembly
920.30	Cover Assembly
933.25	Component Pack 88 - components identified 'A'
936.12	Service Pack - components identified 'B'
937.84	Knob Pack

4. Mira 88 B spare parts diagram



Customer Care

Guarantee of Quality

Mira Showers guarantee your product against any defect in materials or workmanship for the period shown in the Guarantee Registration Document included with your shower.

Alternatively, to confirm the applicable guarantee period please contact Customer Services.

To validate the guarantee, please return your completed registration card.

Within the guarantee period we will resolve defects, free of charge, by repairing or replacing parts or modules as we may choose.

To be free of charge, service work must only be undertaken by Mira Showers or our approved agents.

Service under this guarantee does not affect the expiry date.

The guarantee on any exchanged parts or product ends when the normal product guarantee period expires.

Not covered by this guarantee:

Planned maintenance, or replacement parts required to comply with the servicing requirements of the TMV 2 and TMV 3 healthcare schemes.

Damage or defects arising from incorrect installation, improper use or lack of maintenance, including build-up of limescale.

Damage or defects if the product is taken apart, repaired or modified by any persons not authorised by Mira Showers or our approved agents.

This guarantee is in addition to your statutory and other legal rights.

What to do if something goes wrong

If when you first use your shower, it doesn't function correctly, first contact your installer to check that installation and commissioning are satisfactory and in accordance with the instructions in this manual. We are on hand to offer you or your installer any advice you may need.

Should this not resolve the difficulty, simply contact our Customer Services Team who will give every assistance and, if necessary, arrange for our service engineer to visit. If the performance of your shower declines, consult this manual to see whether simple home maintenance is required. Please call our Customer Services Team to talk the difficulty through, request a service under guarantee if applicable, or take advantage of our comprehensive After-Sales service.

As part of our quality and training programme calls may be recorded or monitored.

Our Customer Services Team is comprehensively trained to provide every assistance you may need: help and advice, spare parts or a service visit.

Spare Parts

We maintain an extensive stock of spares and aim to provide support throughout the product's expected life.

Spares can be purchased from approved stockists or merchants (locations on request) or direct from Customer Services.

Spares direct will normally be despatched within two working days. Payment can be made by Visa or MasterCard at the time of ordering. Should payment by cheque be preferred, a pro-forma invoice will be sent.

All spares are guaranteed for 12 months from date of purchase. Spares that have been supplied directly from us can be returned within one month from date of purchase, providing that they are in good order and the packaging is unopened.

Note! Returned spares will be subject to a 15% restocking charge and authorisation must be obtained before return. Please contact our Customer Services Team.

Note! In the interests of safety, spares requiring exposure to mains voltages can only be sent to competent persons.

Service

Our Service Force is available to provide a quality service at a reasonable cost. You will have the assurance of a Mira trained engineer/agent, genuine Mira spare parts and a 12 month guarantee on the repair.

Payment should be made directly to the engineer/agent using Visa, MasterCard or a cheque supported by a banker's card.

To Contact Us

England, Scotland, Wales and Northern Ireland

Mira Showers Customer Services

Telephone: 0870 241 0888, Mon to Fri 8:00 am - 5:30 pm
Sat 8:30 am - 3:30 pm
E-mail: technical@mirashowers.com
Fax: 01242 282595
By Post: Cromwell Road, Cheltenham,
Gloucestershire, GL52 5EP

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Telephone: 01 459 1344, Mon to Fri 9:00 am - 5:00 pm
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Clondalkin, Dublin 22

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Telephone: 021 496 8755, Mon to Fri 9:00 am - 5:00 pm
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