

HOW TO USE YOUR *AquaNoir* SHOWER (SUMMARY)

1. Ensure the electricity and water are turned on to the unit.
2. Press the **start / stop button "B"**.

This will turn the shower on, the water will flow and the area around the control knobs and button will illuminate.
It is recommended that you do not wholly enter the water flow during this period.

3. **Knob "A"** controls the power selection.
Select High (2 red bands), Medium (1 red band) or Cold (1 white band).
The pointer on the knob indicates setting.

4. If the water is not at your desired showering temperature, **turn knob "C" a small amount** until you reach the desired showering temperature.

Turn clockwise towards the white bands for cooler.
Turn anti-clockwise towards the red bands for warmer.

5. When you have finished showering,
press the start / stop button "B" again.
The illuminated areas will go out.

10.5kW Models Only-Water will continue to flow for approximately 7 seconds before switching off

6. Switch off the electricity supply at the ceiling switch or local isolator.

Notes

- **Wait 20 seconds for the temperature to stabilise after each adjustment.**
- **If the shower has been recently used, it may take up to 20 seconds to come on. During this time the water may go from very hot to cold before stabilising.**
- **The position of knob "C" will be approximately the same each time the shower is used, varying only with incoming water temperature or pressure changes (e.g. you will only need to change from summer to winter).**
- **During normal operation, if an overheated water temperature is sensed then the heater will switch off. Water will continue to flow and cool down before the heater switches back on again.**

IMPORTANT WARNINGS!

**DO NOT SWITCH THE APPLIANCE ON IF YOU SUSPECT IT OF BEING FROZEN.
WAIT UNTIL YOU ARE SURE IT HAS THAWED OUT.**

DO NOT OPERATE THE APPLIANCE IF WATER DISCHARGES FROM THE PRESSURE RELIEF VALVE. MAINTENANCE IS REQUIRED BEFORE THE APPLIANCE CAN BE SAFELY USED.

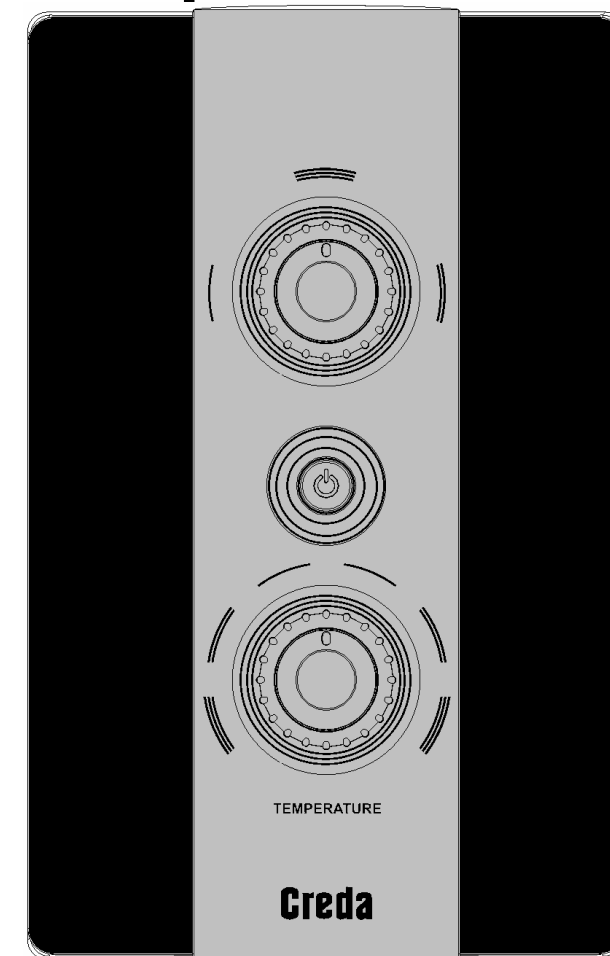
THIS APPLIANCE IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN AND THE INFIRM) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

**CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY
DO NOT PLAY WITH THE APPLIANCE.**

We offer a technical advisory service on the telephone to installers and other customers with problems in the field. RING 0844 372 7766 (UK ONLY)



Creda *AquaNoir*



AquaNoir Range

ELECTRIC SHOWERS

Installation and User Guide

IMPORTANT:
**This booklet should be left with the user
after installation and demonstration**

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GUARANTEE AND CONTACT DETAILS

GUARANTEE

Terms and Conditions for UK (outside UK contact your local distributor)

We, Applied Energy Products Limited, guarantee this product **for domestic use only**, for the period of 24 months* from date of purchase.

Within the guarantee period we will resolve, **free of charge**, any manufacturing defects in the product resulting from faulty workmanship or material on the condition that:-

- The appliance has been correctly installed in accordance with our instructions and is being used on the supply circuit or voltage printed on the rating plate.
- The appliance has been used in accordance with these instructions and has not been tampered with or otherwise subject, neglect or accident.
- The appliance has not been taken apart, modified or repaired except by a person authorised by us.
- Evidence of the date of purchase in the form of an invoice or receipt will be required in order to qualify for an in-guarantee repair.
- The guarantee period for the products used in commercial applications will be limited to 12 months.
- For the service work to be undertaken free of charge, the work must only be undertaken by Applied Energy Products Limited, or our approved agents.
- Service under guarantee has no effect on the expiry date. The guarantee of any exchanged parts or product ends when the original guarantee period ends.

EXCLUSIONS

This guarantee **DOES NOT** cover damage or defects arising from poor or incorrect installation, improper use or lack of maintenance, including build-up of limescale. It is the responsibility of the installer to check that the installation parameters meet the requirements of the product, and any relevant regulations.

If we are called out to a fault, which is subsequently identified as being an installation fault, we will make a charge. It is important that the routine checks are completed before calling us out, as many issues can be simply diagnosed and resolved.

We make no guarantees as to response times for repairs. We will endeavour to achieve the most timely response possible but while we indicate an average response time, this should not be taken as a guarantee.

The guarantee applies to a repair or replacement (at our discretion) of the product subject to the conditions above, and **DOES NOT** cover compensation for the loss of the product or consequential loss of any kind.

The guarantee does not apply to the repair or replacement of pressure relief devices, sprayheads, hoses, accessories, isolating switches, electrical cable, fuses and/or circuit breakers.

This guarantee does not affect your statutory rights.

* Months 13 to 24 of your free guarantee are conditional on the registration of your product at the time of purchase. Product registration helps us to identify when products are installed, and in what location, in order to facilitate a more efficient response to your requests.

Full details of terms and conditions are available on request from:-

Creda

APPLIED ENERGY PRODUCTS LIMITED
MORLEY WAY, PETERBOROUGH PE2 9JJ
TEL: +44 (0) 844 372 7761
FAX: +44 (0) 844 372 7762
Website: www.creda-showers.co.uk

HOW YOUR AquaNoir SHOWER WORKS

1. Water is heated instantaneously as it flows over the heating elements in the copper cylinder (Diagram 9).
2. The heaters are only switched on when sufficient water is flowing. This is done automatically with a switch which works on water pressure.
3. The water is turned on and off by the solenoid valve (and *Timer PCB on 10.5kW models*) built into the shower. This is switched on when button "B" is pressed.
4. The flow of water is automatically held at the level set by the user even though the supply pressure may vary (see "Effect of Other Water Devices on Incoming Water Supply").
5. If the water supply falls below a set limit, the pressure switch will operate and switch off the power to the elements. (see "Effect of Other Water Devices on Incoming Water Supply").
6. **As a further safeguard**, a thermal cut-out switches the power off if the water temperature climbs above the set limit. This cut-out, which gives an audible click, may also operate due to residual heat when the shower is switched off. It will reset itself if water is run through the shower for 10 to 20 seconds.
7. The pressure relief device is to safeguard against abnormal pressure conditions, and provides a level of appliance protection should an excessive build of pressure occur within the shower.

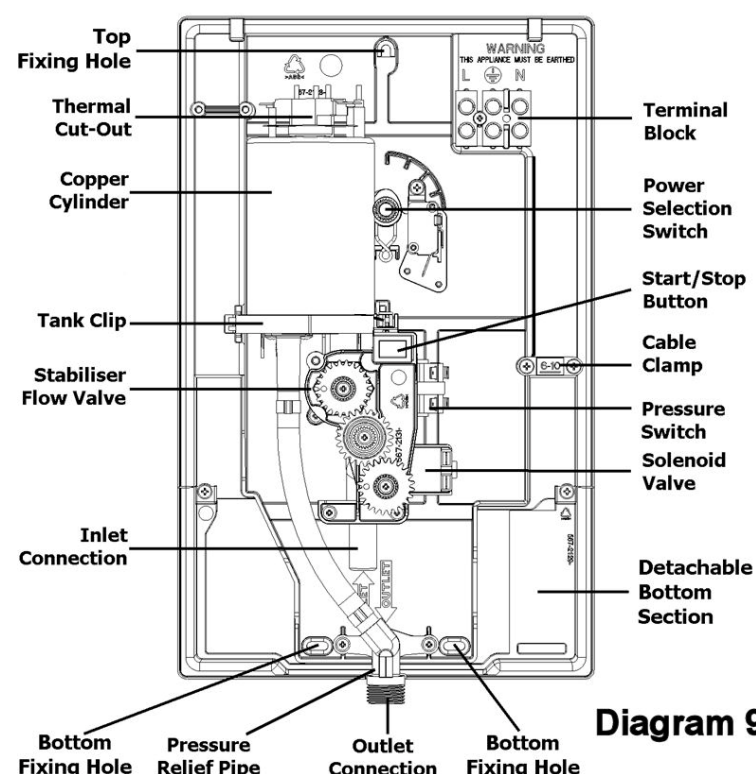


Diagram 9

Effect of Seasonal Incoming Water Temperature Changes

The required water temperature is achieved by adjusting the rate of water flow. Diagram 10 shows the principle involved in relating temperature rise to flow rate. The higher the water rate the lower the temperature and vice versa. The temperature of the water supplied from the mains can vary considerably throughout the year from 5 to 20°C.

This means that in the winter, flow rate will be less than in the summer to achieve the same outlet temperature.

In summer the Medium (2 red bands) power setting may give adequate hot water.

In some **winter** conditions, it may be necessary to select the **inner or outer spray pattern** only of your shower handset. This will ensure correct operation of the shower with a slightly lower flow rate.

Effect of Other Water Devices on Incoming Water Supply

Your shower is **designed to stabilise temperature** changes caused by water pressure fluctuations. These can result from toilets being flushed or taps being turned on and off. When this happens your showering temperature will be held within a controlled band, provided that the minimum pressure required by the shower is maintained.

Your shower requires a minimum running pressure of 69kPa (0.7 bar, 10 psi).

At pressures above 69kPa (0.7 bar, 10 psi) it will minimise temperature fluctuations as detailed above. If the water pressure falls below 69kPa (0.7 bar, 10 psi) it is likely that the pressure switch will turn off the power to the heating elements, resulting in a cold shower.

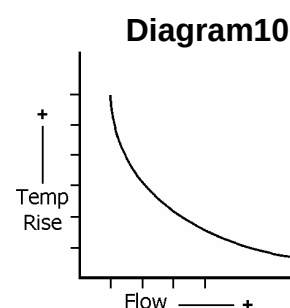


Diagram 10

INTRODUCTION

Thank you for purchasing a quality *Creda AquaNoir* shower manufactured in England.

To enjoy your new shower at its best, please take time to read this manual thoroughly to familiarise yourself with all instructions, BEFORE beginning installation.

Having done so, keep this manual handy for future reference.

The *Creda AquaNoir* is an electric shower incorporating our unique "*Backlit LED light feature*" with a "*Set and Forget*" function of a push-button start/stop facility which starts the shower at a pre-set power and flow rate reducing the amount of adjustment required.

Your shower is designed to stabilise temperature changes caused by water pressure fluctuations. These can result from toilets being flushed or taps being turned on and off.

When this happens, your showering temperature will be held within a controlled band, provided that the minimum pressure required by the shower is maintained (see "Effect of Other Water Devices").

If you experience any difficulty with the installation or operation of your new shower, then please refer to the "What to do if things go wrong" section in this manual before contacting us.

IMPORTANT SAFETY INFORMATION

1. Your shower has been designed for convenience, economy and safety of use, provided that it is installed, used and maintained in good working order and in accordance with our instructions and recommendations.
2. **All wiring and installation must be supervised by a suitably qualified person.**
3. **THIS APPLIANCE MUST BE EARTHED.**
4. The installation must be in accordance with the current edition of BS.7671 (*the "IEE Wiring Regulations"*) and "Part P" of the "*Building Regulations*" in force at the time of installation. Installations outside of England and Wales must also conform to any local regulations in effect. This appliance is intended to be permanently connected to the fixed electrical wiring of the mains supply with its own dedicated supply.
5. This appliance must **NOT** be fitted where it may be subjected to freezing conditions.
6. **DO NOT** switch the appliance on if you suspect it of being frozen. Wait until you are sure it has thawed out.
7. **DO NOT** fit any sort of tap or control on the appliance outlet. The appliance is designed to have an open outlet and should only be used with "Creda" recommended fittings.
8. **The shower handset provided is designed to work with electric showers. Only use the manufacturers approved accessories with this shower.**
9. Take care to avoid restricting the outlet of the pressure relief device. If water is discharged from the pressure relief device, maintenance will be required before the appliance can be safely used.
10. Isolate the mains electrical and water supply before removing the front cover of the appliance.

HOW TO INSTALL YOUR AquaNoir SHOWER

WARNING: ALL WIRING AND INSTALLATION MUST BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.

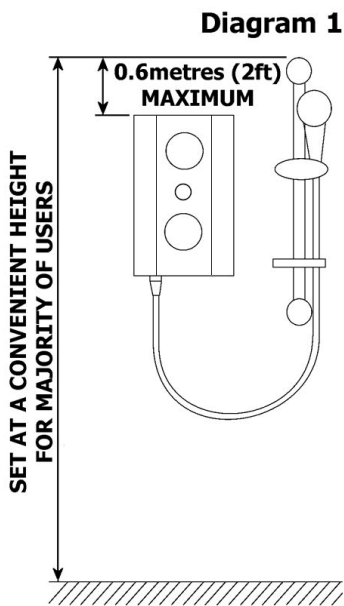
WARNING: DO NOT INSTALL THIS SHOWER WHERE IT MAY BE SUBJECTED TO FREEZING CONDITIONS

We recommend that the installation is done in the following sequence.

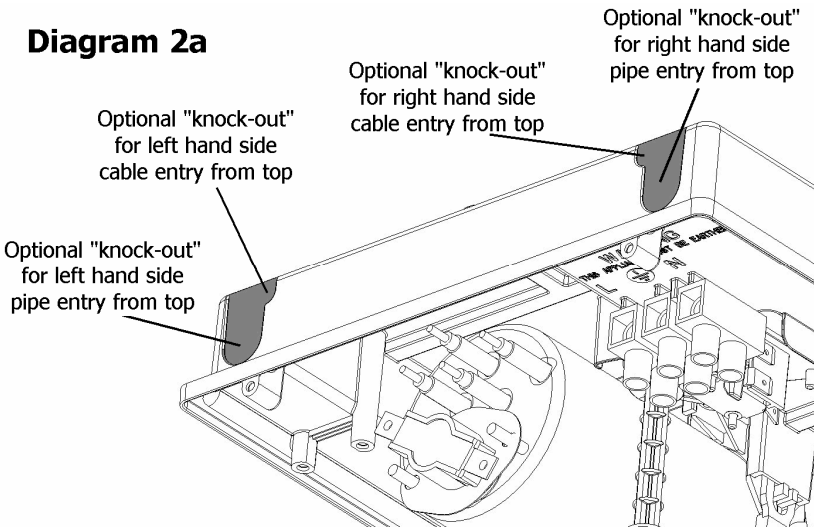
- a. Fixing the shower to the wall b. Plumbing c. Electrical connections

a. FIXING THE SHOWER TO THE WALL

- Position the riser rail at a convenient height for majority of users as detailed in Diagram 1 and mark its position.
- Position the heater so that the top of the unit is horizontal and level with, **or a maximum of 0.6 metres (2ft) below the top of the riser rail.**
Choose a flat piece of wall to avoid the possibility of distorting the backplate, as this may make the front cover a poor fit.
- Adjust the position to get the most convenient arrangement taking the following into account.
 - The heater must not be mounted in the direct spray from the handset.**
 - The handset must not be able to come into contact with used water in the cubicle, bath or basin. If it can, then a vacuum breaker must be fitted.
- Fix the riser rail with screws provided.
The fixing holes at the base of the brackets will be disclosed by removing the plastic fronts. See Diagram 6 and instructions supplied with accessories for further details.
- If you have not yet done so, remove the front cover assembly by undoing the retaining screws at the top and bottom of the unit and lifting the cover off.
- Your shower unit not only accepts services from the top, bottom or rear. It also accepts services from the left or right hand side of the unit. Decide the position of the electrical cable into the unit.
If top entry is chosen, cut away the walls in the backplate as shown in Diagram 2a.



- If bottom entry is chosen, cut away the walls in the detachable bottom section as shown in Diagram 2b. The detachable bottom section is secured to the backplate by 2 screws.
- Decide the position of entry of the cold water pipe into the unit.
If top entry is chosen, cut away the backplate as shown in Diagram 2a.
- If bottom entry is chosen, cut away the walls in the detachable bottom section as shown in Diagram 2b.



If rear, please read the section on plumbing.
To aid installation, you may find it convenient to move the flexible pressure relief valve outlet assembly by removing the two securing screws.
If you do, please ensure that they are fully tightened on re-assembly (see Diagram 2b).

WHAT TO DO IF THINGS GO WRONG (2)

PROFESSIONAL SERVICE

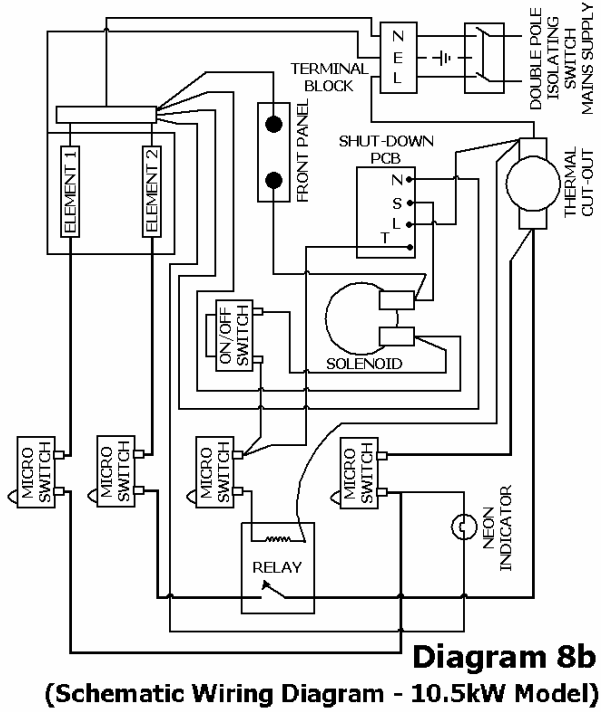
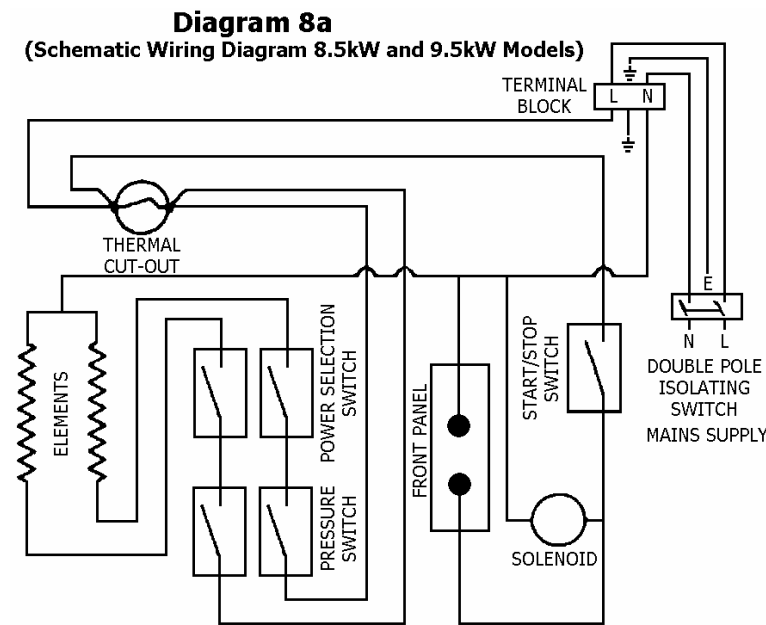
If the previous “Self Help” checks fail to restore the performance, you should seek professional help.

The person who installed the shower is probably the best one to investigate and correct it and is certainly the person to contact if you have had a problem in the guarantee period.

The following additional checklist is provided for the benefit of the qualified service person.

WARNING: SWITCH OFF THE ELECTRICITY AT THE LOCAL ISOLATOR BEFORE REMOVING THE COVER TO MAKE CHECKS

Water too HOT	Water flow restricted by blockage in filter of solenoid valve. Replace the solenoid valve.
Water too COLD	Check circuit through thermal cut-out. Check circuit through microswitches on the pressure switch & power selector. Check each element circuit. Check tightness of electrical connections.
No control over water flow	Check control knob is correctly engaged onto the stabiliser valve drive gear. Undo headworks of stabiliser valve. Check stabiliser is in place and remove any debris in valve then re-assemble.
Water discharges from pressure relief valve	Check for cause of high pressure and remove it. Blockage on outlet e.g. blocked shower handset. Replace the pressure relief disc (not covered by guarantee).
Water does not flow when button “B” is pressed.	Check circuit through solenoid coil. If defective then replace. Check circuit through push button switch. If defective then replace. Power supply not reaching shower.
Areas do not light up when button “B” pressed	Check power connection to front cover. Faulty front cover assembly – replace. Illumination is limited to around knobs and button.



WHAT TO DO IF THINGS GO WRONG (1)

SELF HELP

If the shower is not working satisfactorily, make the following checks before calling out the installer. Any one of these adjustments could restore the performance.

The shower cycles from HOT to COLD	The temperature is set too hot causing the thermal cut-out (safety device) to operate Turn knob "C" clockwise to increase water flow. Slowly increase the water temperature by turning knob "C" anti-clockwise until a comfortable showering temperature has been reached. You MUST WAIT approximately 20 seconds for each adjustment to affect the water temperature. Medium setting (2 red bands) may need to be selected.
Water too HOT	Increase water flow by adjusting knob "C" clockwise. Medium setting (2 red bands) may need to be selected. Increase pressure to water supply e.g. fully open service valve or stop cock. Check hose is not kinked restricting the water flow and clean handset.
Water too COLD	Decrease water flow by adjusting knob "C" anti-clockwise. High setting (3 red bands) may need to be selected. Select inner or outer only handset spray pattern.
Spray pattern poor	Clean the shower handset.
Water takes longer to heat up	Thermal cut-out has operated after previous use and the neon indicator has gone out (automatically resets when unit cools down) High setting (3 red bands) may need to be selected.
Water goes cold while using shower	Check water pressure has not fallen so far as to let pressure switch cut out, e.g. Another tap drawing water off. Raise position of shower handset.
Broken parts	Please contact our spares department on 0844 372 7750 (UK only). Fitting instructions are provided with most spares.
Water continues to flow when button "B" pressed to stop	This is normal for 10.5kW models only (Other models contact "After Sales") The shower includes a shutdown feature that means the water will continue to flow for up to 7 seconds after "⏻ (stop)" has been selected.

CRED A AFTER SALES SERVICE

We offer a technical advisory service on the telephone to installers and other customers with problems in the field.

RING 0844 372 7766 (UK ONLY)

Some spare parts (see Page 11) can be supplied against Credit or Debit cards.

RING 0844 372 7750 (UK ONLY)

Remember to quote the exact type of shower, as written on the front of the shower and on this leaflet.

The model and serial number are located on the bottom face of the shower.

Make a note of those numbers here, and be sure to quote them if you call for advice.

Model Number: 53-67 _ _ _ _ _ **Serial Number:** _ _ _ _ _

Note: You may be charged for a service call if you do not have the serial number.

- Your shower is provided with 3 fixing positions in the backplate (see Diagram 9). The top-fixing hole is a "key-hole" slot, and should be marked and drilled first.

Tighten top screw with head protruding about 10mm from the wall and hook the backplate over the screw head. This allows for correct and accurate alignment of your shower before marking and fixing the bottom positions.

You may not wish to tighten up both screws at this stage as the holes are elongated to allow for adjustment after other connections have taken place.

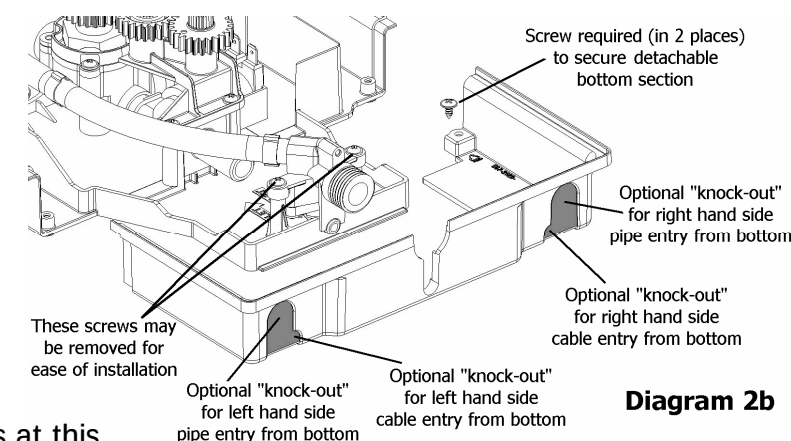


Diagram 2b

- PLUMBING** (For your convenience a cold water inlet configuration diagram is shown on page 6)

WARNING: ENSURE THAT THE MAINS WATER SUPPLY MEETS THE REQUIREMENTS BELOW BEFORE CONTINUING WITH INSTALLATION.

The heater must be connected to the mains cold water supply. This must have a minimum running pressure of 69kPa (0.7 bar, 10 psi) and a maximum pressure of 690kPa (7.0 bar, 100 psi).

WARNING: BEFORE CONNECTING THE PIPE WORK TO THE SHOWER, ENSURE THAT THE PIPE WORK IS FULLY FLUSHED OUT.

- Unscrew the "Red Cap" from the shower outlet pipe and discard it in a suitable manner. It has been used to seal the shower during transit, and is no longer required.
- It is recommended that a WRAS (Water Regulations Advisory Scheme) listed isolating valve is fitted to the incoming mains cold water before the shower unit. This will allow the unit to be serviced or exchanged without having to turn off the mains water at the water stop valve.
- The heater can be fed from a header tank provided this has a minimum head of 7 metres (23ft).
- The cold water inlet connection supplied is a plain Ø15mm straight shank/shaft. This connector will accept either a Ø15mm compression elbow or a Ø15mm "push-on elbow". Ø15mm copper, stainless steel or suitable plastic pipe should be used. For your convenience, a cold water inlet configuration diagram is shown on page 6. If rear entry is required, treat as top entry with an additional "Yorkshire" elbow (soldered type) for fitting into the rear channel. To aid installation, you may find it convenient to move the flexible pressure relief valve outlet assembly by removing the two securing screws (See Diagram 2b). In multiple installations, correct pipe work sizes should be calculated to maintain adequate flow to each shower.
- It is permissible to use a WRAS (Water Regulations Advisory Scheme) approved sealant sparingly whilst avoiding excess finding its way into the shower operating parts.
- With isolating valve connected, **flush the pipe work through to remove any particles etc**, before making the final connection to the shower. Blockage in the water ways (particularly the handset and solenoid valve) will prevent the heater working properly. *Note: You may be charged for a service call if it is due to incorrect installation.*
- The shower is designed to have an open outlet and should only be used with "Creda" recommended fittings. Do not connect the handset until after the front cover and detachable bottom section are fitted.

WARNING: DO NOT FIT A TAP ON THE SHOWER OUTLET.

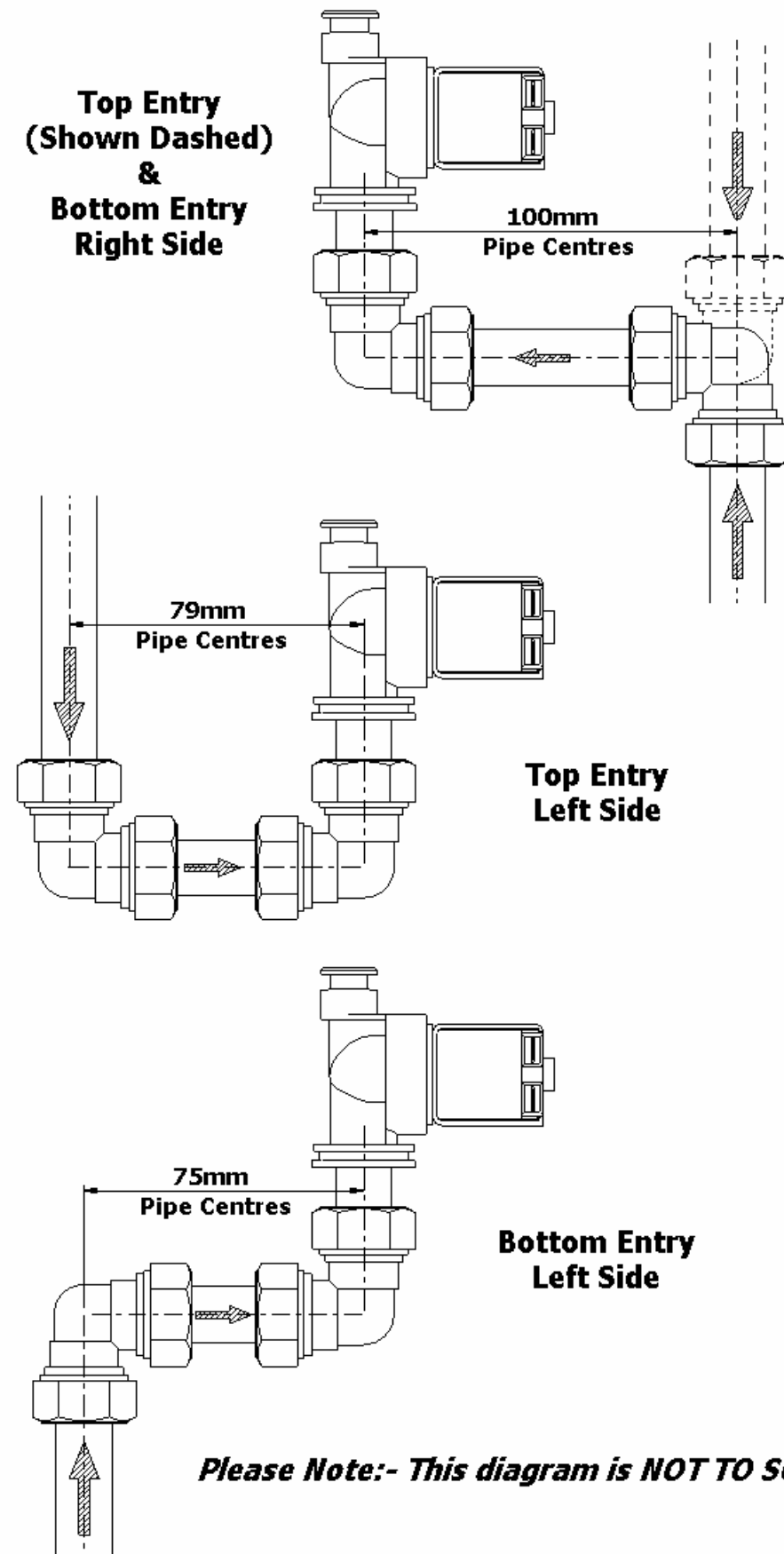
WARNING: TAKE CARE TO AVOID RESTRICTING THE OUTLET OF THE PRESSURE RELIEF VALVE.

COLD WATER INLET PIPE CONFIGURATION

Please note that standard compression fittings are shown.
Push-Fit connections or a combination of the two is also suitable.

To aid installation, you may find it convenient to move the flexible pressure relief valve outlet assembly by removing the two securing screws.

If you do, please ensure that they are fully tightened on re-assembly (see Diagram 2b).



HOW TO MAINTAIN YOUR AquaNoir SHOWER

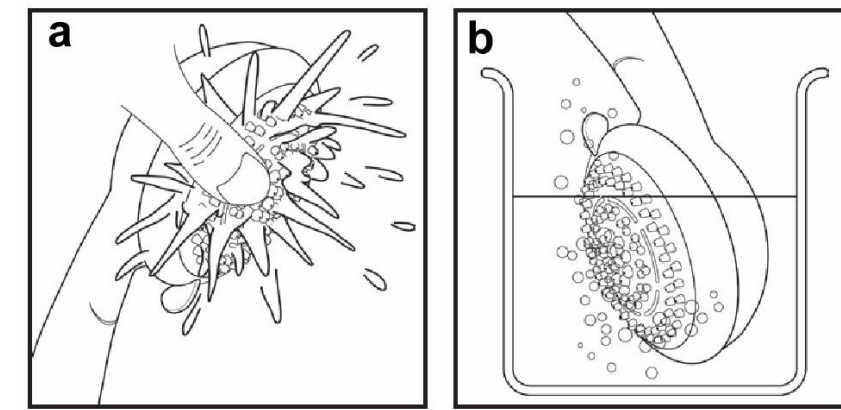
It is recommended that the shower unit and hose etc. be cleaned using a soft cloth and that the use of abrasive or solvent based cleaning fluid be avoided, especially on any plated and painted finishes.
We recommend that before any cleaning, the isolating switch be turned off, thus avoiding accidentally switching on the shower.

WARNING: YOU MUST REGULARLY INSPECT THE SHOWER HOSE FOR WEAR AND DAMAGE. REPLACE IF NECESSARY, OR EVERY TWO YEARS, WITH AN APPROVED PART.

WARNING: IN ORDER TO MAINTAIN THE PERFORMANCE OF YOUR SHOWER, YOU MUST REGULARLY CLEAN THE SHOWER HANDSET.

All water contains particles of lime-scale, which build up in the shower handset and unit reducing the performance.

It is therefore important to clean the shower handset by simply rubbing the rubber nozzles, or soaking in proprietary lime-scale remover and rinsing thoroughly before use (actual shower handset not necessarily shown).



NOTE: After use it is normal for some water to drip from the shower handset for a few moments. This inhibits scale build-up over prolonged use.

ADDITIONAL ACCESSORIES

COMMON SPARE PARTS

Please Note:- The fitting of Spare Parts must be supervised by a suitably qualified person.

White 2.0m Shower Hose	Cat No. 83792578	Front Cover Assy	Cat No. 93550861
Chrome 1.25m Shower Hose	Cat No. 93797641	Thermal Cut-Out 50/88°C	Cat No. 93597871
WRAS Listed Water		Tank Clip	Cat No. 93590715
Isolating Valve	Cat No. 93792452	Set of 3 Drive Gears	Cat No. 93590373
Chrome Standard Accs	Cat No. 83595317	Solenoid Valve	Cat No. 93590355
Chrome Multi-Mode Accs	Cat No. 83595318	Backplate Lower Section	Cat No. 93550833
Chrome Curved Accessories	Cat No. 83595320	PRV Outlet Body Assy	Cat No. 93590357
Curtain and Rail Pack	Cat No. 83792812	PRV Washer	Cat No. 93792817
Curtain and Rail Pack with		Flexible Outlet Pipe c/w Clip	Cat No. 93590358
Non-Slip Mat	Cat No. 83792811	Phased Shut-Down Relay (10.5kW)	Cat No. 93597878
		Phased Shut-Down PCB (10.5kW)	Cat No. 93597813
		Handset	Cat No. 93597862
		Height Adjuster	Cat No. 93597861
		Ø25mm Chrome Riser Rail	Cat No. 93590395

**Additional accessories and spare parts can be supplied against any
Credit or Debit cards from Creda Sales Hotline 0844 372 7750**

HOW TO USE YOUR AquaNoir SHOWER (DETAILED)

1. Ensure the electricity and water are turned on to the unit.
2. Your shower has 2 control knobs (see Diagram 7).
Knob "A" controls the 3 power settings.
The most popular is High (3 red bands).
There are also options for a Medium (2 red bands) or Cold (1 white band) shower (see notes 7 and 8).

Knob "C" controls the temperature of the water.

For this example turn knob "A" to High (3 red bands) and set knob "C" to "12 o'clock", as shown in Diagram 7.
The raised pip on the control knob is the indicator

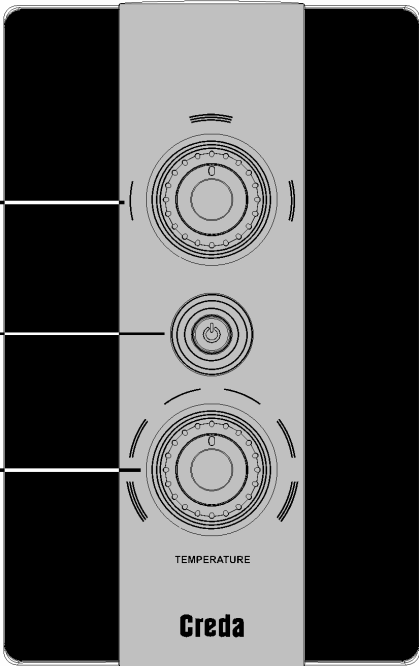
3. **Press button "B".**
The water will flow and the area around the control knobs and button will illuminate.
4. **Allow about 20 seconds** for the temperature of the water to stabilise.
It is recommended that you do not wholly enter the water spray during this period, especially if the shower has just been used.

Diagram 7

Knob "A"

Button "B"

Knob "C"



IF WATER IS TOO HOT

Turn knob "C" clockwise towards the white bands to 1 o'clock and continue turning clockwise until you get the water temperature of your liking.

Wait 20 seconds after each adjustment for the water temperature to stabilise.

The final adjustment may be anywhere on the dial.
If after turning fully clockwise, water is still too hot, adjust knob "A" to Medium setting (2 red bands) and re-adjust as above.

Water flow will be reduced on this setting.

IF WATER IS TOO COLD

Turn knob "C" anti-clockwise to 11 o'clock and continue turning anti-clockwise until you get the water temperature of your liking.

Wait 20 seconds after each adjustment for the water temperature to stabilise.

The final adjustment may be anywhere on the dial.
If after turning fully anti-clockwise water is still too cold, set shower pattern on shower handset to outer or inner pattern only.

5. Once a temperature setting to your liking has been achieved, knob "C" will rarely need adjusting. You must however take into account required adjustments for variations of incoming mains water temperature between summer and winter (see "Effect of Seasonal Incoming Water Temperature Changes" see page 14).
6. When you have **finished** showering, **press button "B"** only. You have no need to adjust knobs "A or C".
The illuminated areas will go out.
10.5kW Variants Only - Water will continue to flow for approximately 7 seconds before switching off
Switch off the electricity at the ceiling switch or local isolator.
7. The Medium (2 red bands) setting of knob "A" reduces the power used by the shower giving a cooler shower or the option of reduced water flow.
This option is mainly for summer usage and if this is used then knob "C" must be re-adjusted.
8. The Cold (1 white band) setting will supply water without any heating.
9. Your shower is **designed to stabilise temperature** changes caused by water pressure fluctuations (see "Effect of Other Water Devices on Incoming Water Supply" see page 14).

WARNING: DO NOT SWITCH THE SHOWER ON IF YOU SUSPECT IT OF BEING FROZEN. WAIT UNTIL YOU ARE SURE IT HAS THAWED OUT.

WARNING: DO NOT OPERATE THE SHOWER IF WATER IS DISCHARGED FROM THE PRESSURE RELIEF VALVE. MAINTENANCE IS REQUIRED BEFORE THE SHOWER CAN BE USED.

WARNING: CONSIDERATION SHOULD BE GIVEN TO SUPERVISING THE YOUNG, ELDERLY AND THE INFIRM WHILST THEY USE THIS SHOWER.

c) ELECTRICAL

WARNING: THIS SHOWER MUST BE EARTHED.

The electrical installation must be in accordance with the current BS.7671 (IEE Wiring Regulations) and "Part P" of the Building Regulations and/or local regulations.

1. The shower unit is designed for a single phase AC electrical supply.
Please check the rating plate on the unit to see what details apply to your shower.
AS A GUIDE ONLY (Only applies if external earth impedance is less than 0.35 Ohms)*

Rating	Cable Sizes	Fuse / MCB	Cable Length
8.5 / 7.8kW 240 / 230V	6.0mm ²	40A Type B MCB	27m Max.
	10.0mm ²		45m Max.
9.5 / 8.7kW 240 / 230V	6.0mm ²	45A BS.1361 fuse	12m Max.*
	10.0mm ²		21m Max.*
10.5 / 9.6kW 240 / 230V	6.0mm ²	40A Type B MCB	27m Max.
	10.0mm ²		45m Max.
9.5 / 8.7kW 240 / 230V	6.0mm ²	45A BS.1361 fuse	12m Max.*
	10.0mm ²		21m Max.*
10.5 / 9.6kW 240 / 230V	10.0mm ²	45A BS.1361 fuse	12m Max.*

Remember to upgrade the cable if it runs in thermal insulation in a loft, or for a longer distance.

2. A means for disconnection in all poles must be incorporated in the fixed wiring in accordance with the wiring rules. We recommend a ceiling switch mounted in a convenient position.
3. If you have decided to connect the cable on the left hand side then please remove and use the cable clamp that was provided along the right side (see Diagram 3b).

WARNING: IF LEFT HAND SIDE CABLE ENTRY IS USED, THE MAINS CABLE OUTER SHEATH MUST BE STRIPPED BACK TO THE LEVEL MARKED ON THE BACKPLATE, AND ALL THREE CONDUCTORS MUST BE FULLY SLEEVED WITH THE SLEEVING PROVIDED BETWEEN THERE AND THE TERMINAL BLOCK (SEE DIAGRAM 3a).

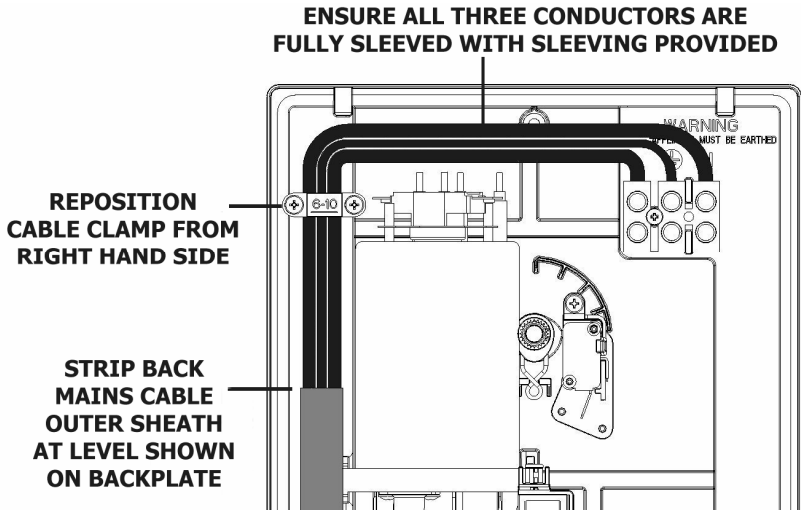


Diagram 3a
Left Side Installation

PLEASE NOTE: THE SLEEVING PROVIDED IS REQUIRED FOR LEFT HAND SIDE CABLE ENTRY ONLY. IT IS NOT REQUIRED FOR RIGHT HAND SIDE ENTRY.

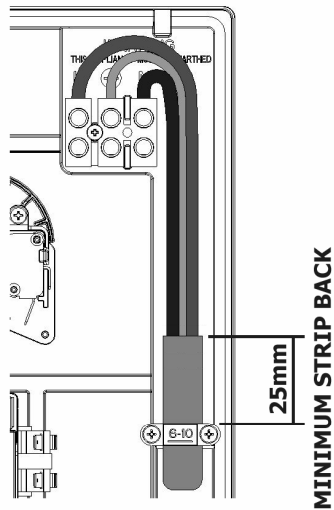
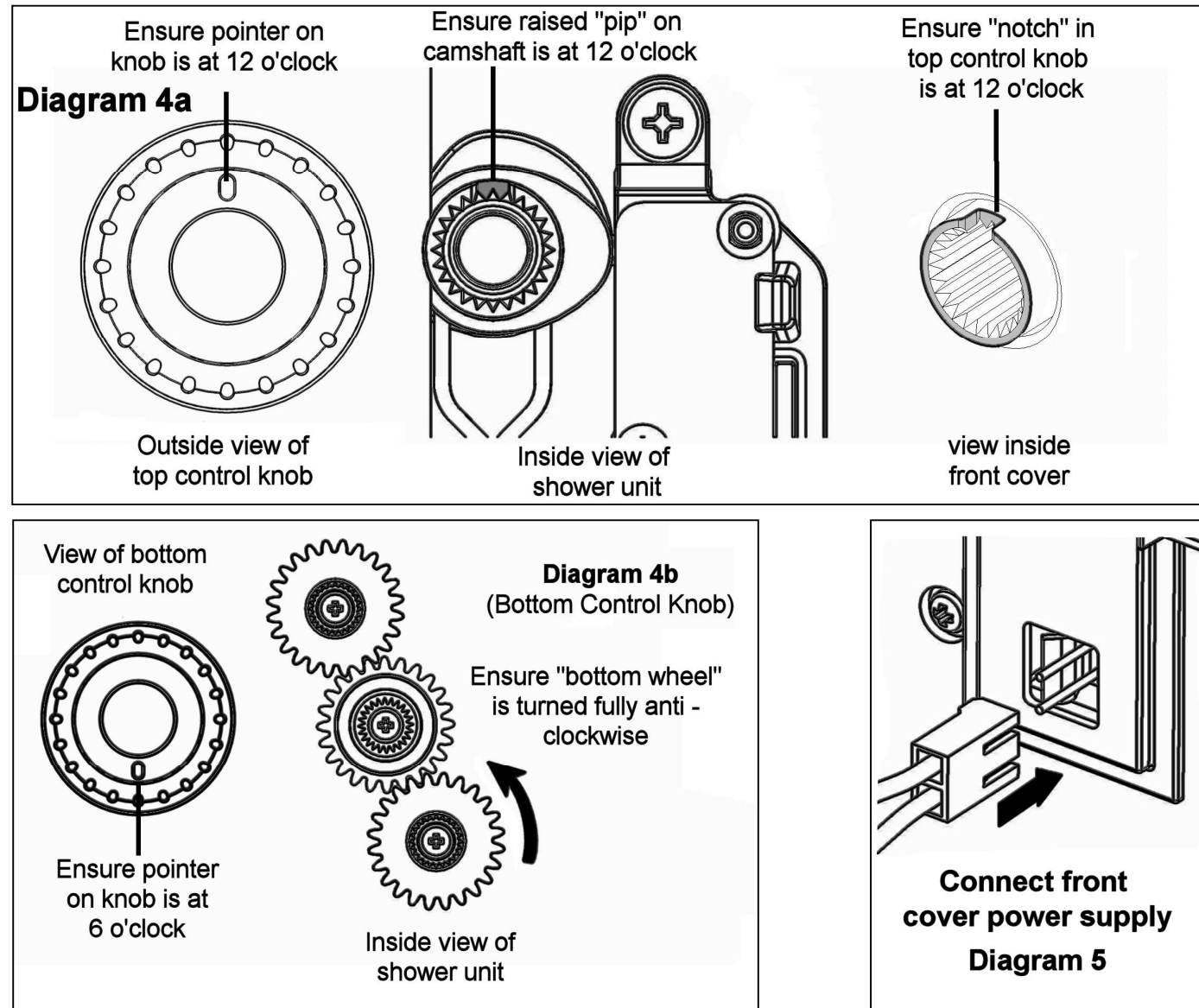


Diagram 3b
Right Side Installation

4. Connect cable to terminal block making sure that all the retaining screws are **VERY TIGHT** and that no cable insulation is trapped under the screws.

WARNING: FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN FAILURE OF THE TERMINAL BLOCK.

5. Re-fit the detachable bottom section with the two screws if it was removed.



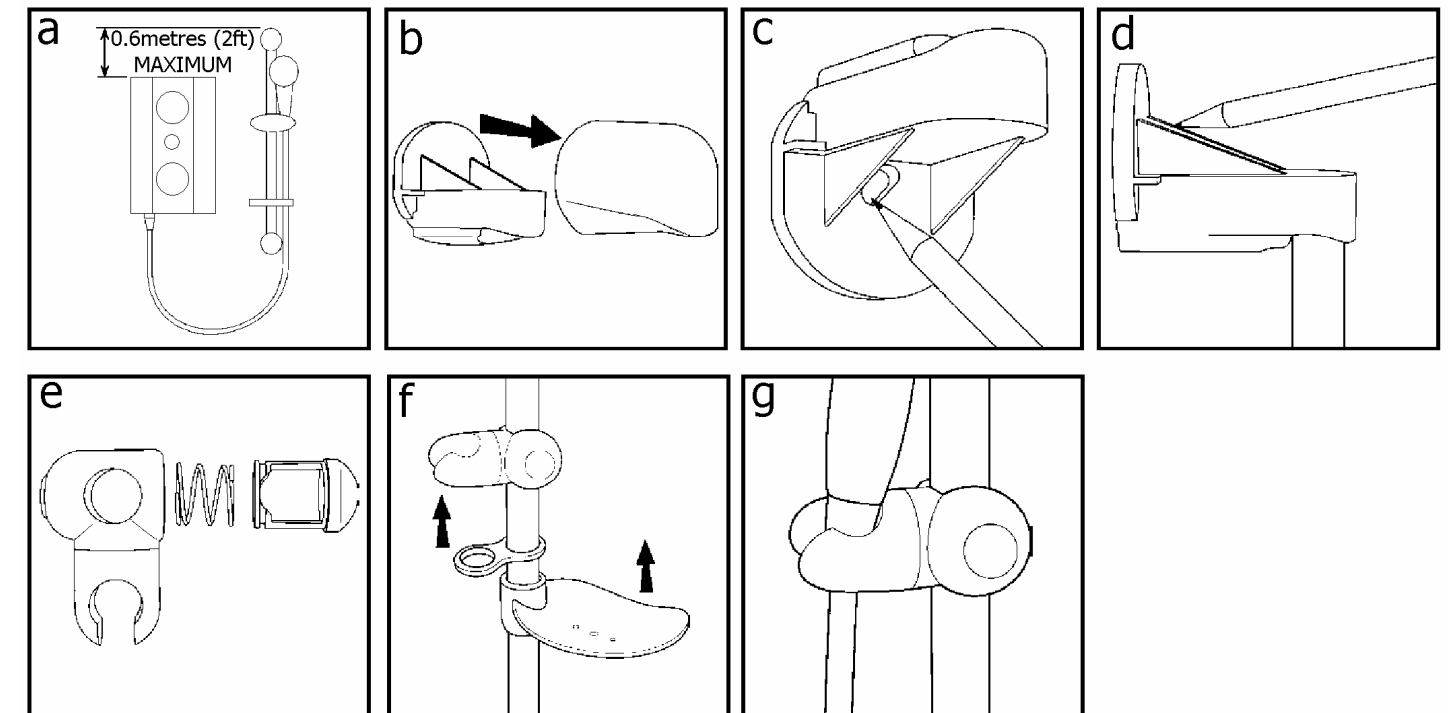
6. Locate and connect the front cover power supply cable as shown (diagram 5) ensuring that the lead is routed away from the heat exchanger. Take care not to damage the pins when connecting.
7. When re-fitting the front cover
- Ensure the top control knob pointer is set to the 12 o'clock position as shown (Diagram 4a).
 - Ensure the pointer of the bottom control knob is aligned to 6 o'clock as shown (Diagram 4b).
 - In the main body of the shower ensure the "raised pip" of the "camshaft", positioned to accept the top control knob, is set to 12 o'clock (Diagram 4a).
 - In the main body of the shower ensure the "bottom gear wheel", positioned to accept the bottom control knob is turned fully anti-clockwise as shown (Diagram 4b). Then secure by replacing the top and bottom fastening screws
 - Check that the top control knob has been correctly aligned by ensuring that all three power settings can be selected.
 - Check that the bottom control knob has been correctly aligned by turning clockwise and ensuring that the knob turns approximately one full turn and when turned back fully anti-clockwise, returns to 6 o'clock.
7. Fit the shower hose, and operate the shower first without the handset to flush out particles, fit the handset and then operate the shower as on page 10 or 16 and check:
- Water gets to a satisfactory temperature and water flow can be adjusted by control knob "C".
 - Power selection operates in all 3 positions, giving a change in water temperature.
 - Check again for leaks and that the holes in the shower handset are not blocked.

8. **Demonstrate the showers operation to all users.**

ASSEMBLY OF ACCESSORIES

Diagram 6 - Riser Rail and Soap Dish Fitting Instructions

(Refer to the separate fitting instruction sheet packed with the accessories for more details)



NOTE: The adjustable slider grips the conical nut on the shower hose (g).