

**TRITON**

**AS2000X  
power shower**



**Installation and  
operating  
instructions**

INSTALLERS PLEASE NOTE THESE  
INSTRUCTIONS ARE TO BE LEFT WITH  
THE USER



**! The showerhead and hose supplied with this product are an integral part of the safety of your shower. Failure to use genuine Triton parts may cause injury and will invalidate your warranty !**

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**⚠ WARNING ⚠**

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children may not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

To check the product suitability for commercial and multiple installations, please contact Triton's specification advisory service before installation.

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## **1 PLUMBING NOTES**

- 1.1** All installations must comply with Water Regulations or Water Bylaws.
- 1.2** Supply pipes must be flushed to clear debris before connecting the shower unit.
- 1.3** DO NOT connect the shower unit to the mains cold water supply as it would damage the unit and also, the installation would be in breach of Water Regulations.
- 1.4** DO NOT use excessive force when making connections to the flexible hose or showerhead – finger tight is sufficient.
- 1.5** ALL plumbing connections are to be completed and water supplies turned on BEFORE switching on the electricity supply. The shower must not be operated dry without water.
- 1.6** DO NOT solder pipes or fittings within 300 mm of the shower appliance, as heat transfer can damage components.
- 1.7** When installed, the top of the shower unit must be at least 75 mm lower than the base of the cold water storage cistern to prevent the pump being run dry without water.
- 1.8** A dedicated cold water supply must be taken directly from the cold water cistern to the shower. This draw-off must be on the opposite side of the cistern to the float operated valve to reduce the risk of air entering the unit.
- 1.9** The action of the pump is to increase the flow rate. If the supply pipework cannot handle the resulting flow rate then:
  - 1.9.1** The anticipated flow rate may not be achieved.
  - 1.9.2** Air may be drawn into the hot supply from the vent pipe causing spluttering and temperature fluctuations at the showerhead.
- 1.10** Fullway isolating valves MUST be fitted on the hot and cold water supplies to the shower as an independent means of isolating the water supplies should maintenance or servicing be necessary. DO NOT use stop taps or ball-o-fix type valves which restrict flow.

## **2 ELECTRICAL NOTES**

- 2.1** The installation must comply with BS 7671 'Requirements for electrical installations' (IEE wiring regulations). Make sure the incoming hot and cold water supplies to the shower are adequately earth bonded.
- 2.2** DO NOT turn on the electrical supply until the plumbing connections have been completed. Only then can the electricity be switched on in order to power the solenoid to turn water on to the shower when commissioning. The shower must not be operated dry without water.
- 2.3** The mains supply must be 230/240V, at 50Hz, connected to the unit via a double pole switched 3 Amp fused connection unit (not supplied) with a minimum 3 mm contact separation gap in each pole.
- 2.4** In accordance with 'The Plugs and Sockets etc. (Safety) Regulations 1994', this unit is intended to be permanently connected to the fixed electrical wiring of the mains system.
- 2.5** Fuses do not give personal protection against electric shock.
- 2.6** A 30mA residual current device (RCD) MUST be installed. This may be part of the consumer unit or a separate unit.

## INTRODUCTION

This book contains all the necessary fitting and operating instructions for your Triton Power Shower. Please read them carefully.

The shower installation must be carried out by suitably competent person and in sequence of this instruction book.

Care taken during the installation will ensure a long and trouble free life from your shower

**IMPORTANT: All plumbing connections must be completed BEFORE making the electrical connections.**

Please read through the whole of this book before beginning your installation.

**IMPORTANT: The fittings on the pipe inlet elbows are of the push-in type. The pipework must be cut with a pipe cutter and all burrs and rough edges removed from the end of the tube. The fittings can be used with copper and plastic pipe.**

**Where chrome plated pipe is used, remove the first 25 mm of plating.**

**Note:** The pump inside this product is rated 15 minutes on / 45 minutes off duty cycle.

## SAFETY WARNINGS

- a. **DO NOT** insert fingers into the push-in inlet fittings. Doing so could cause injury.
- b. **Under no circumstances must this product be connected to mains cold or hot water supplies.** Failure to comply will invalidate the guarantee.
- c. The shower **MUST NOT** be used if suspected of being frozen.
- d. The outlet of this appliance **MUST NOT** be connected to any form of tap or fitting not recommended by the manufacturer.
- e. The showerhead cartridge **MUST** be cleaned regularly to remove scale and debris.
- f. This appliance **MUST** be earthed.
- g. Switch off immediately at the isolating switch if water ceases to flow during use.
- h. **DO NOT** operate the shower outside the guidelines laid out in 'site requirements'.
- i. **DO NOT** operate the shower if the showerhead or spray hose becomes damaged.
- j. **DO NOT** restrict flow out of the shower by placing the showerhead in direct contact with your body.

### WARNING!

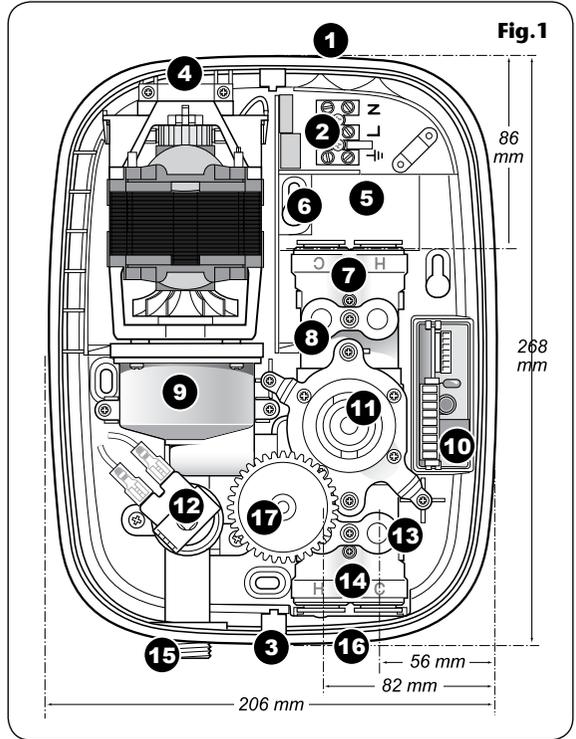
**The power shower does not contain a thermostatic valve – it will not shut off in the event of failure of either the hot or cold water supplies.**

Replacement parts can be ordered from Triton Customer Service. See 'spare parts' for details and part numbers.

A 30mA residual current device (RCD) MUST be installed in all UK 230V electric and pumped shower circuits. This may be part of the consumer unit or a separate unit.

**MAIN COMPONENTS**

- 1.** Top pipe entry and cable entry
- 2.** Terminal block
- 3.** Cover screw fixing
- 4.** Motor retaining bracket
- 5.** Rear pipe entry and cable entry
- 6.** Wall fixing holes
- 7.** Pipe inlet elbow - top (contains single check valves)
- 8.** Filter cover - top
- 9.** Pump
- 10.** PCB
- 11.** Temperature control valve
- 12.** Solenoid
- 13.** Filter cover - bottom
- 14.** Pipe inlet elbow - bottom (contains single check valves)
- 15.** Outlet
- 16.** Bottom pipe entry
- 17.** Potentiometer gear



**SPECIFICATIONS**

**Hot water temperature**

Maximum temperature 65°C.

BS 6700 recommends 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 effects of scale in hard water areas.

**Maximum static inlet pressures**

100 Kpa (1 bar) or 10m (supplies must be gravity fed at nominally equal pressures).

**Minimum static inlet pressure**

0.75 Kpa (0.0075 bar) or 75mm (required to prime the integral centrifugal pump).

**Maximum supply head 10m.**

## SITE REQUIREMENTS

### Water

The installation must be in accordance with Water Regulations/Bylaws and BS 6700.

For correct operation of this shower unit, both hot and cold water supplies to the appliance must be gravity fed, at nominally equal pressures, from a cold water storage cistern and a hot water storage cylinder.

The water circuit should be installed so that the flow is not significantly affected by other taps and appliances being operated elsewhere on the premises.

**Fig.2** shows a recommended installation where the hot water supply for the shower is made via a tee connection on the underside of the horizontal section of pipework from the cylinder. Alternatively, the connection can be taken from the hot supply pipe to other outlets as long as it is the first draw-off below the ventilation pipe tee.

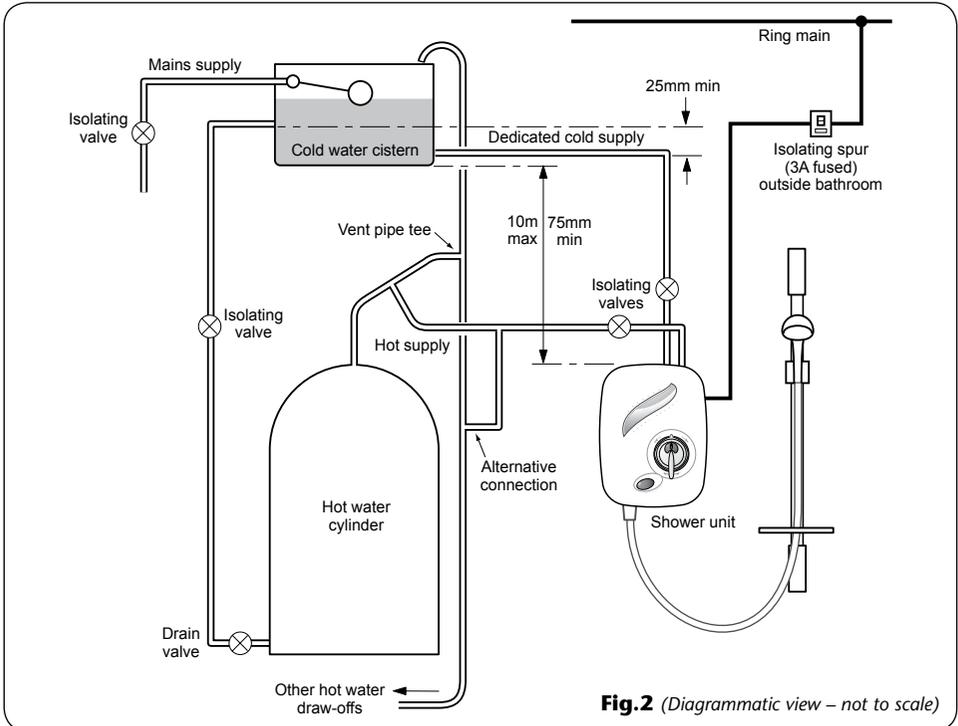
**Fig.3** illustrates all the incorrect connections that must be avoided.

All pipework to the shower unit must be routed where it remains below the level of water in the cistern. In the case of horizontal sections of pipework in lofts, it may be necessary to fit automatic air vents at high points on the supplies to remove the possibility of air locks.

For the operation of the shower only, it is recommended that the cold water storage cistern is capable of holding at least 114 litres (25 gallons). Where other hot and cold outlets are likely to be in use simultaneously, the storage capacity should be increased to 228 litres (50 gallons) in accordance with BS 6700.

Do ensure compliance with the Water Regulations/Bylaws.

DO NOT connect to a combination cylinder unless there is a guaranteed 114 litre cold supply to the cylinder as the shower can deliver up to 14 litres per minute. It is advisable to check that



**Fig.2** (Diagrammatic view – not to scale)

the infill rate from the float operated valve meets the output requirements..

It is recommended that there is a minimum of approximately 114 litres (25 gallons) of hot water storage per appliance.

**The shower MUST NOT be connected to the mains cold water supply.**

**DO NOT use jointing compounds.**

**GENERAL INSTALLATION NOTES**

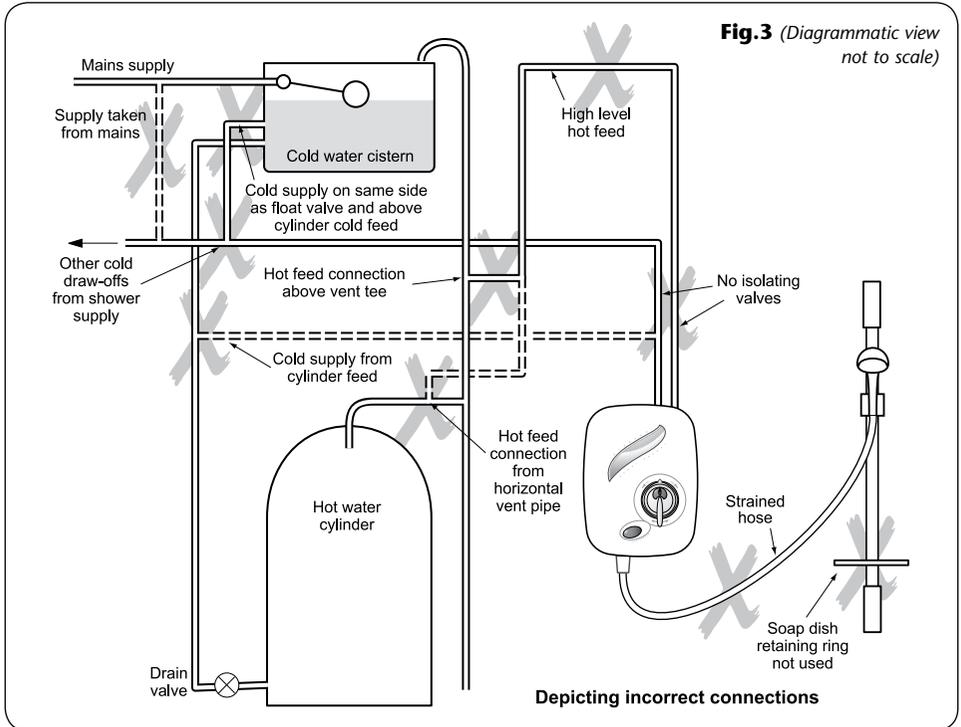
1. DO NOT take risks with plumbing or electrical equipment.
2. DO NOT install this unit in a position where it could become frozen.
3. Isolate electrical and water supplies BEFORE proceeding with installation work.
4. Shower control MUST be fed from a cold water storage cistern and hot water cylinder that provides nominally equal pressures.

5. The unit must be mounted onto the finished wall surface (on top of tiles).

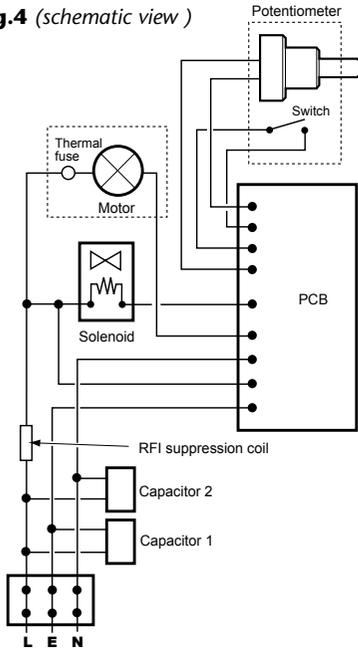
DO NOT tile up to the unit after fixing to the wall.

6. If installing with rear inlet supplies, it is recommended the supply pipework is sealed to the wall so as to prevent water from leaking back into the wall.
7. In solid wall installations, the supply pipework should be housed within ducting in order to allow some free lateral movement when making connections and to ensure compliance with requirements of accessibility of pipes and pipe fittings.

**Fig.4** shows a schematic wiring diagram of the unit.



**Fig.4** (schematic view )



## SITING OF THE SHOWER

### WARNING!

**The shower must not be positioned where it will be subject to freezing conditions.**

**IMPORTANT:** If fitting to a tiled wall, always mount the unit on the surface of the tiles. NEVER tile up to the unit.

Refer to **fig.5** for correct siting of the shower. Position the unit vertically where it will NOT be in direct contact with water from the showerhead.

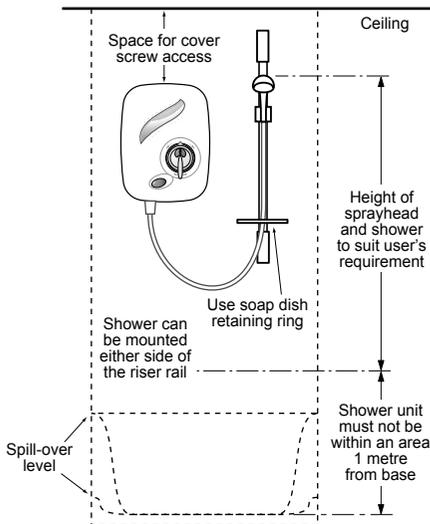
**Note:** Allow sufficient room between the ceiling and the shower unit to access the top cover screw.

Position the shower and showerhead on the wall so that all controls can be comfortably reached when using the shower.

The showerhead and riser rail can be positioned either side of the shower unit.

**Note:** Water Regulations require the showerhead be 'constrained by a fixed or sliding attachment so that it can only discharge water at a point not less than 25 mm above the spill-over level of the relevant bath, shower tray or other fixed appliance'. The use of the supplied soap dish will in most cases meet this requirement, but if the showerhead can be placed within a bath, basin or shower tray, then a device must be fitted to prevent back-flow.

**Fig.5**



## REMOVING THE COVER

To remove the cover, first pull off the cover trim (**fig.6**) to reveal the retaining screw.

Undo the screw and pull off the inner temperature control. Now remove the outer flow control assembly comprising of the flow control, maximum temperature stop and temperature disc (**fig.7**).

**Note:** If adjustment of the maximum temperature stop is required, refer to section 'Adjusting the maximum temperature stop'.

Remove the two cover fixing screws – top and bottom (**fig.8**).

Carefully lift the cover away from the backplate. Lay aside the cover and screws until the unit is fully installed.

**Note:** When removing the cover for future maintenance purposes be aware of the lead connecting the Start/Stop switch to the PCB harness. To release, squeeze the connection block arms and pull apart. DO NOT let the unit dangle by the lead.

## PLUMBING CONNECTIONS

### Plumbing to be carried out before wiring

**Note:** The outlet of the shower must not be connected to anything other than the hose and showerhead supplied.

DO NOT use jointing compounds on any pipe fittings for the installation.

When connecting pipework avoid using tight 90° elbows. Swept or formed bends will give optimum performance.

Isolate the mains water supply to the cold water cistern. Drain the hot and cold pipes by opening all taps.

The hot water supply can be taken from the hot supply pipe from the cylinder. Make sure that it is the first draw-off below the ventilation pipe tee in order to minimise the effects of water draw-off elsewhere in the house (**see fig.2**).

**Note:** There must not be any other draw-offs between the take-off point and the shower.

A dedicated cold water supply must be taken directly from the cold water cistern to the shower. This draw-off must be positioned

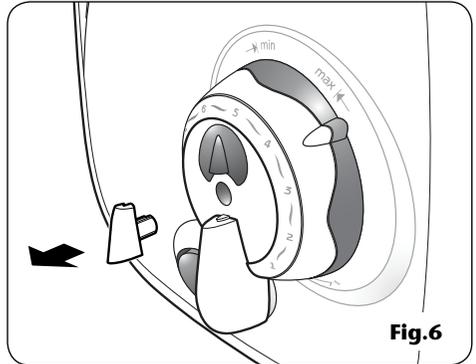


Fig.6

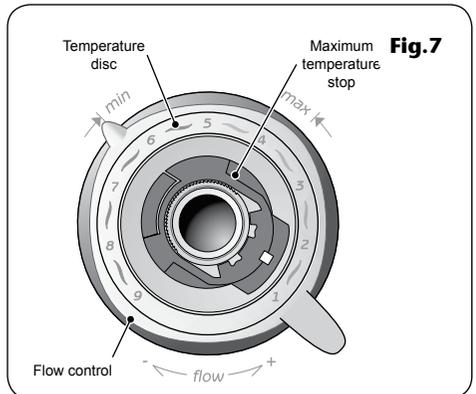
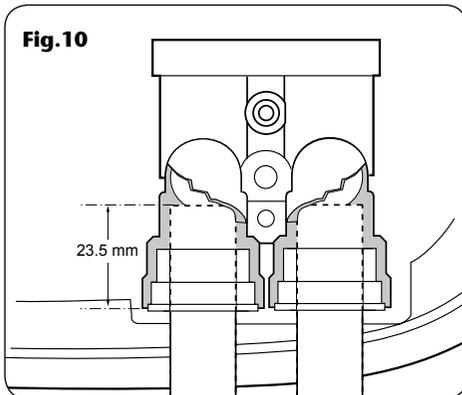
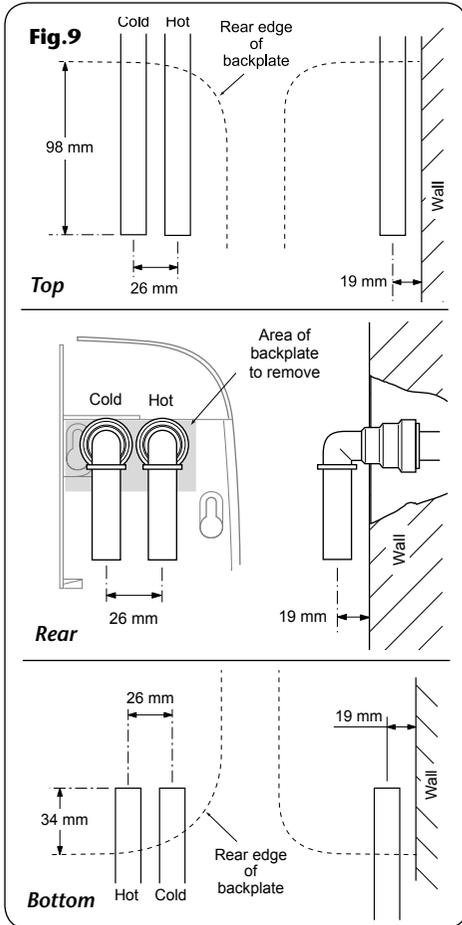


Fig.7



Fig.8



25 mm below the cold feed connection to the hot water cylinder on the opposite side of the cistern to the float operated valve (see fig. 2). This minimises air ingress into the pipework.

Plumbing options other than those outlined in these fitting instructions could impair the performance. For example, if hot and cold connections are made after draw-off points to other outlets, (eg. washing machine, taps, etc.) it could result in unstable flows and temperatures should other appliances operate at the same time.

Run the hot and cold pipework to the shower position, making sure that the pipework does not rise above the level of water in the cold cistern at any point to avoid air locks. Under normal site conditions 15 mm pipework will be adequate.

Decide the position of the shower. Cut the pipework to the dimensions relevant to the chosen direction of water entry into the shower.

**IMPORTANT:** For rear entry only, the supplied elbows must be used. For ease of installation, the backplate area adjacent to the top pipe inlet must be cut out, including the top left wall fixing hole.

When fitting the elbows to incoming pipework, ensure the elbow collets are fully engaged with the pipe.

Dimensions are shown in fig. 9 and fig. 10.

**Note:** The pipe inlets are marked for hot and cold connections – left-hand side for hot inlet on bottom entry (fig. 11), but right-hand side for hot inlet on top or rear entry (fig. 12).

**IMPORTANT:** The fittings on the inlet elbows are the push-in type. The pipework must be cut with a pipe cutter and all burrs and rough edges removed from the end of the tube. The fittings can be used with copper and plastic pipe.

If using chrome plated copper pipe, remove the first 25 mm of plating completely from the connecting surfaces. If not completely removed then the collet will not grip the pipe and under pressure the pipe may be forced out.

**Note:** Pipework must be clipped or fixed to the wall so that it cannot be moved or removed without the aid of a tool.

**Note:** The pipe inlets contain filters. These should be periodically removed and cleaned in order to maintain the performance of the shower. See section 'cleaning' on how to access the filters.

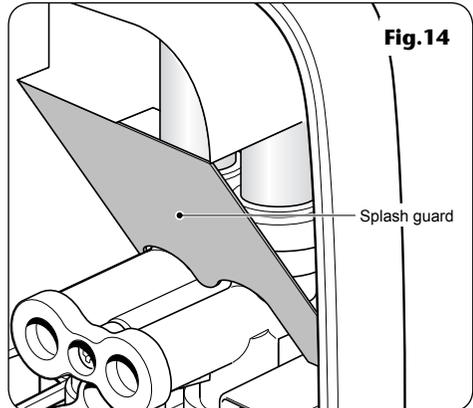
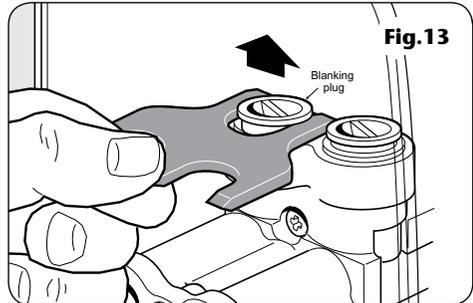
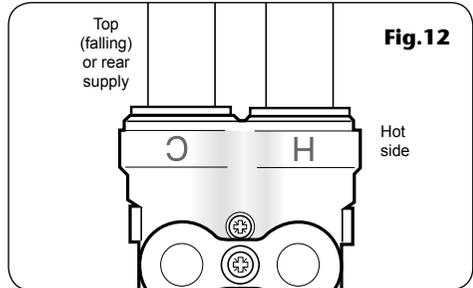
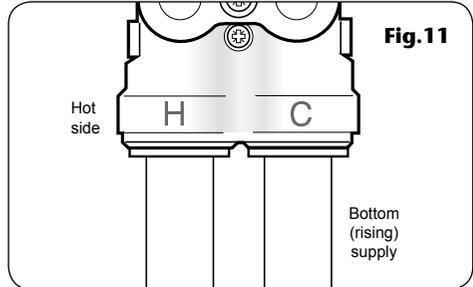
**IMPORTANT:** The inlets contain check valves, so before completing the connection of the water supplies to the shower flush out the pipework to remove all swarf and system debris that may cause damage to internal parts. This can be achieved by connecting a hose to the pipework and turning on the water supplies long enough to clear the debris to waste.

**IMPORTANT:** Two factory fitted blanking plugs are fitted to the top pipe inlets. These should be left in position if bottom pipe entry is required.

For top or rear pipe entry, the two plugs **MUST** be removed and refitted into the bottom pipe inlets. Failure to fit the blanking plugs will result in the unit working erratically.

Insert the pipe removal tool supplied between the flange of the plug and the grey collet and lever the plug outward (**fig.13**). Whilst holding back on the collet, pull out each plug by hand. When refitting the plugs in the bottom pipe inlets, make sure they are pushed fully home.

**Note:** The unit is supplied with a splash guard (**fig.14**) to prevent water ingress when top entry pipework is used. If fitting top entry pipework, make sure the splash guard is correctly fitted (**fig.14**) before replacing the cover.



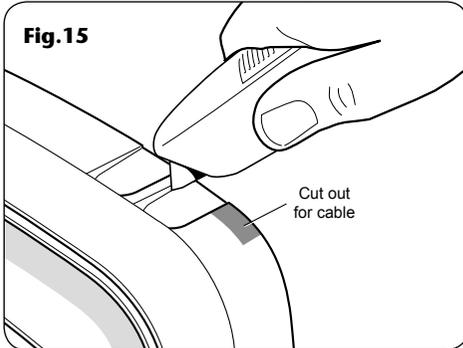


Fig. 15

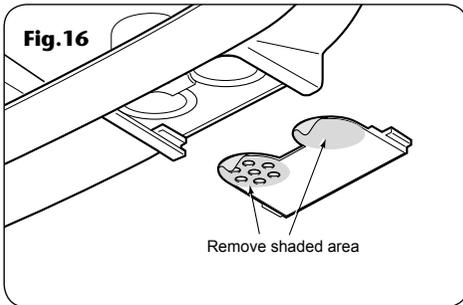


Fig. 16

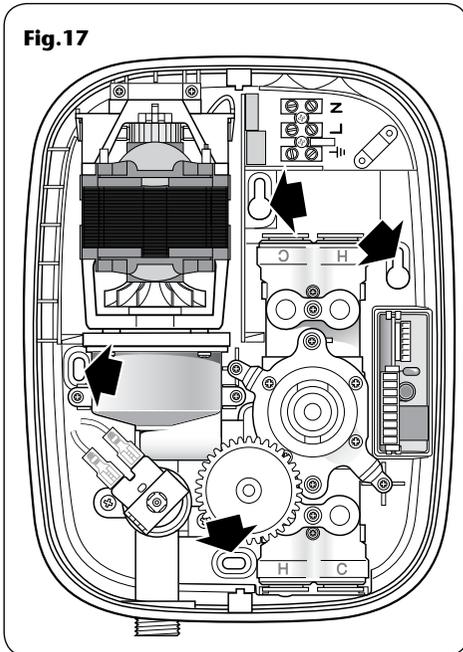


Fig. 17

## FITTING THE SHOWER TO THE WALL

**IMPORTANT:** Before fitting the shower, make sure the pipework is flushed out to remove all debris, flux, etc.

For top pipe entry or top cable entry, remove the relevant cut-outs by either breaking out or by using a knife or junior hacksaw (**fig.15**).

If top entry for both pipe and cable is required, then additionally remove the shaded area (**fig.15**) by using a knife or junior hacksaw.

For bottom pipe entry, remove the cut-out and break off the two circular parts (**fig.16**). Replace the cut-out.

For rear pipe entry only, the supplied elbows must be used with the necessary portion of backplate cut away as shown in **fig.9**.

It will be necessary if rear cable entry is required, for conduit or other routing of the electrical cable to be completed before fixing the shower to the wall.

Offer the backplate unit up to the completed pipework and manoeuvre so that the end of the pipes enter fully into the inlet fittings.

Mark positions for wall fixing holes using backplate as template (**fig.17**). Note that four fixing holes are provided but using only two should be adequate for most site conditions.

Using the pipe removal tool supplied, push back and hold the collets from the pipework (**fig.18**) to disengage the pipework from the inlet elbows.

Remove unit from the wall.

Drill and plug the wall.

*(An appropriate drill bit should be used. If the wall is brick, plasterboard or a soft building block, appropriate wall plugs and screws should be fitted).*

**Note:** If fitting rising supplies to the unit, ensure debris does not enter the pipes when drilling the wall.

Offer the backplate unit up to the completed pipework and manoeuvre so that the end of the pipes enter fully into the inlet fittings.

Check the backplate is square and the fixing holes are aligned (**fig.17**).

Secure to the wall with fixing screws supplied.

## ELECTRICAL CONNECTIONS

### WARNING!

**This unit must be earthed. Isolate the supply before starting.**

The supply cable must conform to relevant tables in current IEE regulations. In most cases 1 mm<sup>2</sup> twin and earth will be adequate.

The electrical rating of the shower is on the rating label within the unit.

**SWITCH OFF THE ELECTRICITY SUPPLY AT THE MAINS.**

Cable entry points are shown in **fig.1**. Conduit entry can only be from the rear.

Route the cable into the shower, taking care to avoid the area of the wall fixings and connect to the terminal block (**fig.19**) as follows:

Earth cable to terminal marked **E** ⚡

Neutral cable to terminal marked **N**

Live cable to terminal marked **L**

**IMPORTANT:** Fully tighten the terminal block screws and check that no cable insulation is trapped under the screws.

**Note:** The supply cable earth conductor must be sleeved.

The earth continuity conductor of the electrical installation must be effectively connected electrically to all exposed metal parts of other appliances and services in the room in which the shower is to be installed, to conform to current IEE regulations.

**Note:** Fuses do not ensure user protection against electric shock. In the interest of electrical safety, all mains electric and pumped showers should be fitted with a 30mA residual current device (RCD). This may be part of the consumer unit or a separate unit.

**DO NOT** switch on the electricity supply until the water has been turned on to the unit and connections have been tested for leaks.

**IMPORTANT:** The cover may be left off initially only for commissioning.

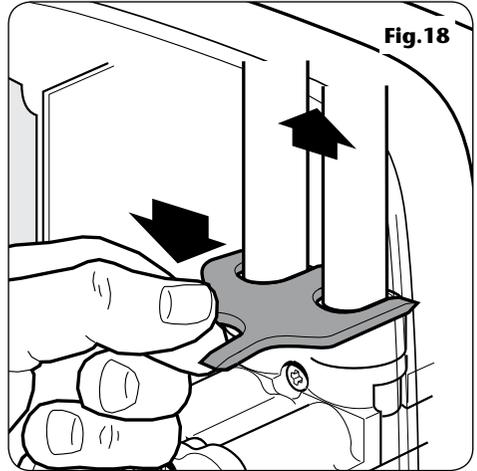


Fig.18

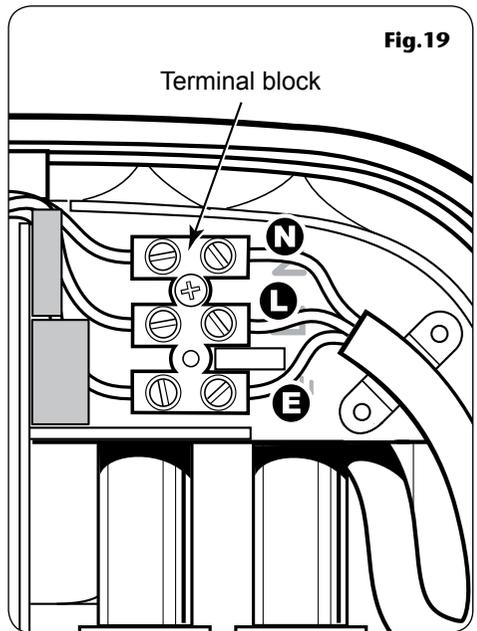
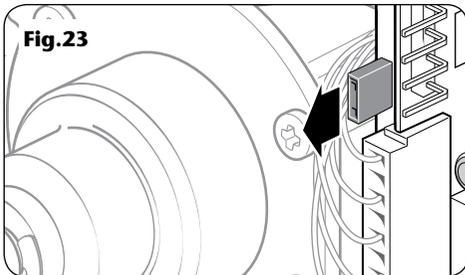
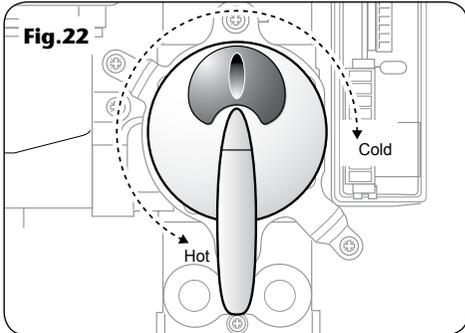
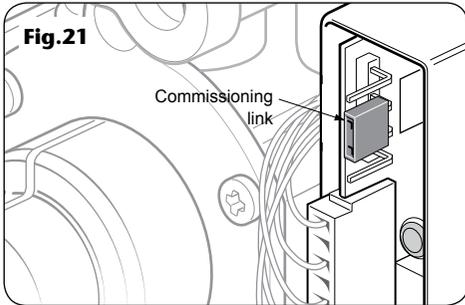
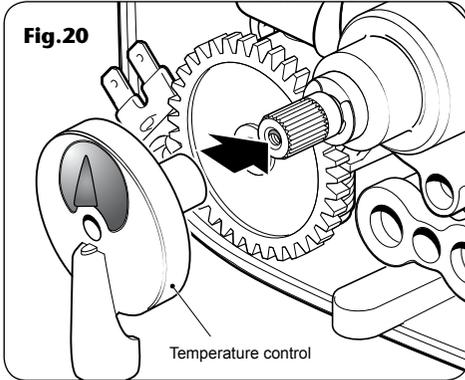


Fig.19



## COMMISSIONING

### WARNING!

**Before normal operation of the shower, it is essential that the commissioning and setup procedure are correctly completed. Failure to do so could cause the pump to run dry without water and invalidate your guarantee.**

The first operation of the shower is intended to flush out any remaining system debris and to ensure water is purged through the unit. This operation must be carried out with the flexible hose screwed to the shower outlet but without the sprayhead attached.

Make sure the outlet of the flexible hose is directed to waste.

Check the isolating valves controlling the water supply to the unit are fully open.

**Note:** There is no need to fit the cover at this stage but be aware of live parts when the electricity is switched on temporarily.

Fit the temperature control onto the splined spindle (**fig.20**).

### WARNING!

**Be aware of live parts in the unit when the electricity is switched on. DO NOT tamper with any parts and DO NOT deviate from the following instructions.**

On the PCB, make sure the commissioning link is positioned on the middle two pins (**fig.21**).

Switch on the electric supply at the isolating switch. Water will begin to flow under gravity pressure.

Once the unit has been commissioned, disconnect the electricity supply *before* removing the commissioning link.

In order to dispel air and to prime both supplies to the shower unit, turn the temperature control several times within its rotational limits. ONCE

RESISTANCE IS FELT, DO NOT FORCE THE CONTROL FURTHER.

**Note:** The temperature control rotates less than one complete turn (**fig.22**). DO NOT force it beyond these limits.

To stop the water flow, switch off the electricity supply at the isolating switch.

Check for leaks in the pipework and remedy if necessary. If rear entry has been used then seal around pipes with mastic to prevent the possibility of water entering the wall cavity.

DO NOT use plaster as this could cause difficulty if maintenance is required later.

### Setup procedure

MAKE SURE THE ELECTRICITY TO THE UNIT IS SWITCHED OFF.

#### WARNING!

**Once the unit has been commissioned, turn off the electricity supply at the mains before removing the commissioning link.**

Pull off the temperature control. Remove the commissioning link from the PCB (**fig.23**) and store safely for future use.

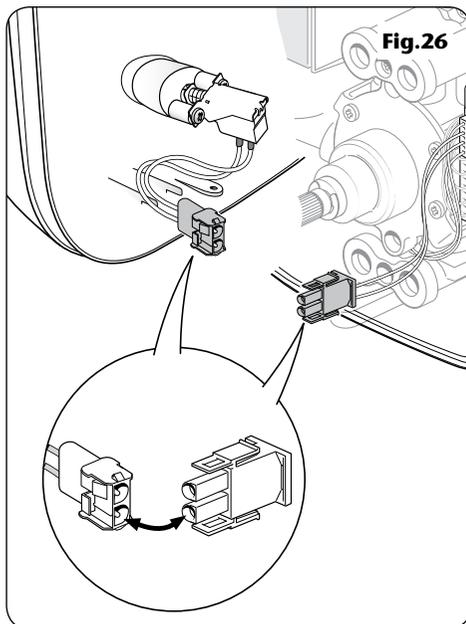
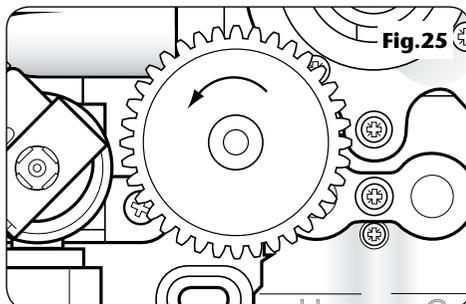
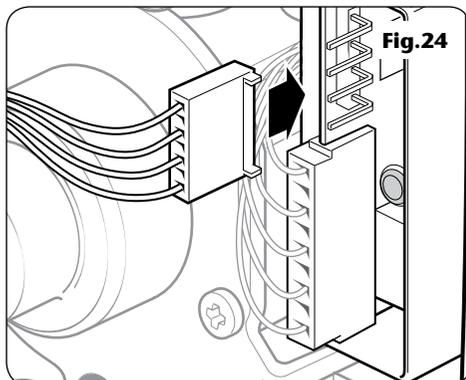
Inside the cover, attached to the flow control potentiometer is a 4-wire lead. Fit the connector on the end of this lead to the 4 pins on the PCB (**fig.24**) – it can fit either way.

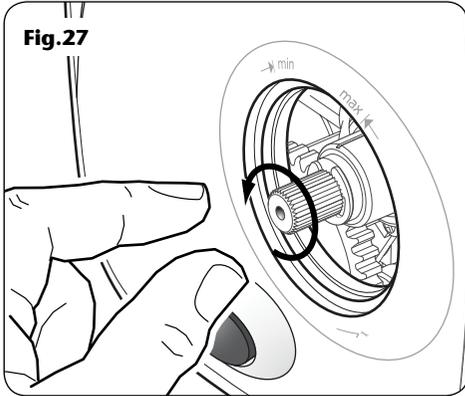
Make sure the potentiometer control is rotated fully anti-clockwise (**fig.25**).

### Replacing the cover

Offer the cover to the backplate unit. Inside the cover, attached to the stop/start switch is a two wire lead. The socket on the end of this lead must connect to the plug attached to the backplate unit (**fig.26**).

Fit the cover, making sure the connector is fitted to the PCB and the wires are clear of obstructions. Secure with the top and bottom fixing screws (**fig.8**).





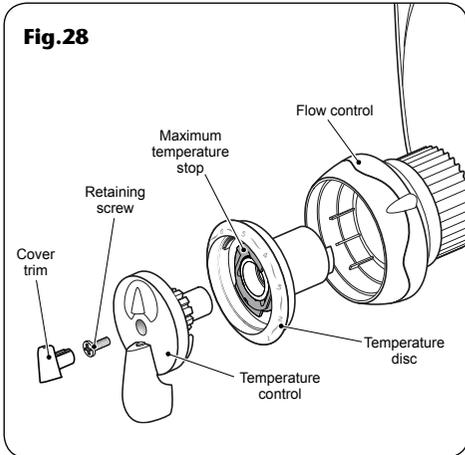
With your fingers, rotate the valve spindle fully anti-clockwise (**fig.27**) to the fully hot position. Replace the flow control so that it aligns with the 'min' position.

Fit the temperature disc (it will only fit one way) and maximum temperature stop (**fig.28**).

**Note:** If adjustment of the maximum temperature stop is required, refer to section 'Adjusting the maximum temperature stop'.

Replace the temperature control onto the valve spindle. Make sure the pointer aligns with setting '9' on the temperature disc (**fig.29**).

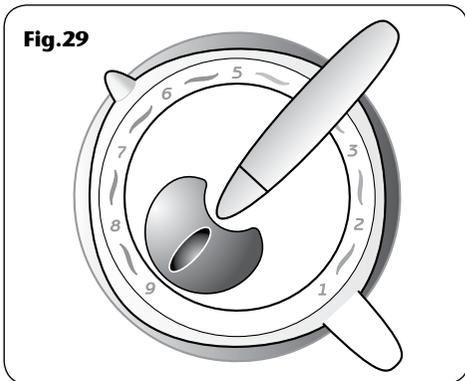
Secure with the retaining screw and fit the cover trim.



Switch on the electricity supply at the isolating switch. Make sure both water supplies are still turned on.

Once the installation of the riser rail is complete, the shower is ready for normal operation.

**⚠ WARNING ⚠**  
**COVER RETAINING SCREWS**  
**ONLY the SUPPLIED SCREWS** should be used. The use of none supplied screws **WILL** invalidate product specifications & warranty.



## OPERATING THE SHOWER

Check all plumbing and electrical supplies are connected and switched on.

To start the shower, press the 'Start/Stop' button (fig.30).

Adjust the control (fig.31) until the flow rate is satisfactory.

For maximum flow, turn the flow control fully anti-clockwise. For minimum flow, rotate the flow control fully clockwise.

To adjust the temperature rotate the control (fig.32). The temperature is numbered for ease of use. The temperature ranges from '1' – fully cold to '9' – fully hot.

Once the preferred temperature is reached, no further adjustment is required, providing the hot and cold water supplies remain constant.

To stop the shower, press the 'Start/Stop' button once more. This stops the pump and water flow.

Unless the shower is to be used again immediately, the shower should also be switched off at the electricity isolating switch.

As a safety feature, the temperature control has a built-in stop to prevent you accidentally exceeding your highest desired temperature. If adjustment is required see section 'Adjusting the maximum temperature stop'.

To override this stop, depress the button (fig.33) while the control is up against the stop and turn the control anti-clockwise to the higher settings (pressing the button before the stop will not operate the override mechanism even if the control is turned with the button depressed).

To return to the normal temperature range just turn the temperature control clockwise until it is past the maximum temperature stop. Make sure the temperature control is in the normal temperature range when the shower is switched off. The stop comes in a factory set position based on 65°C stored hot water temperature.

**Note:** As the flow control is adjusted it is normal for the sound of the pump to alter in pitch.

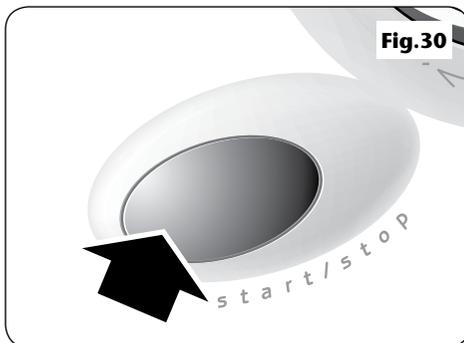


Fig.30

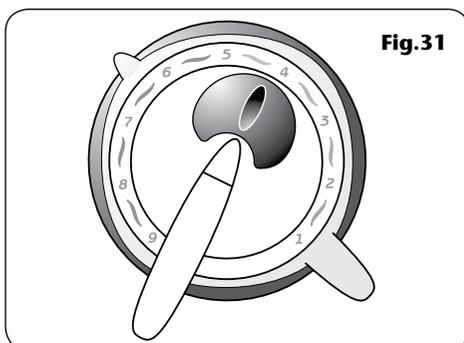


Fig.31

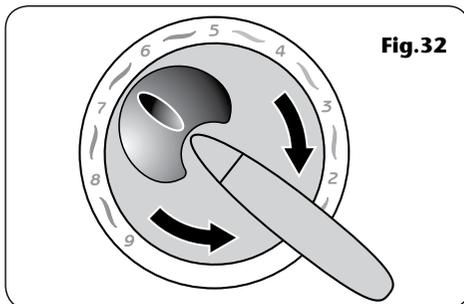


Fig.32

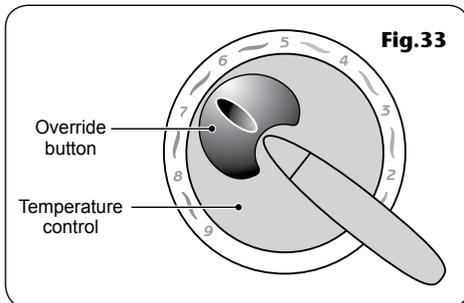
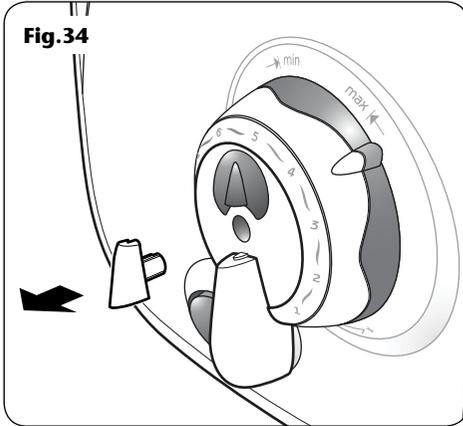


Fig.33



## ADJUSTING THE MAXIMUM TEMPERATURE STOP

As a safety feature the shower has a built-in maximum temperature stop to prevent you accidentally exceeding your highest desired temperature. This is set in the factory to provide a maximum temperature based on the hot and cold water supplies being 65°C and 15°C respectively.

**IMPORTANT:** Only adjust the maximum temperature stop when the hot water is at its usual storage temperature.

### Procedure

Rotate the temperature control to setting '9' on the temperature disc.

Remove the cover trim to reveal the retaining screw (**fig.34**).

Undo the retaining screw and carefully pull off the temperature control, making sure it is still aligned to setting '9'.

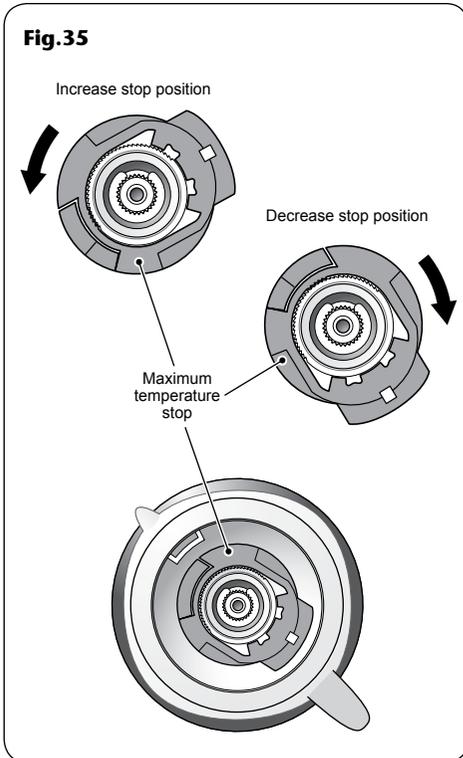
Now remove the maximum temperature stop.

To increase the temperature stop setting, reposition the mechanism anti-clockwise within the arc of the grooves (**fig.35**).

To decrease the temperature stop setting, reposition the mechanism clockwise within the arc of the grooves (**fig.35**).

Replace the temperature control onto the valve spindle. Make sure the pointer aligns with setting '9' on the temperature disc (**fig.28**).

Secure with the retaining screw and refit the cover trim.



**INSTRUCTIONS FOR INSTALLERS AND SERVICE ENGINEERS ONLY**

**CLEANING THE FILTERS**

**Note:** Turn off the electricity and both hot and cold water supplies to the unit before proceeding further.

To remove the cover, first pull off the flow knob cover trim (**fig.6**) to reveal the retaining screw.

Undo the screw and pull off the temperature control. Now remove the outer flow control assembly comprising of the flow control, maximum temperature stop and temperature disc.

Remove the two cover fixing screws – top and bottom (**fig.8**). Carefully lift the cover away from the backplate. To release the PCB connector, squeeze the connection block arms and pull apart.

Remove the single retaining screw from either the upper or lower filter cover (**fig.36**), depending upon whether top/rear entry or bottom entry is used. Pull off the filter cover. Carefully hook out the filters together with 'O' rings. Thoroughly clean and replace making sure the 'O' rings are in position.

Refit the filter cover and secure with the retaining screw.

Make sure the potentiometer control is rotated fully anti-clockwise (**fig.25**).

With your fingers, rotate the valve spindle fully anti-clockwise (**fig.26**) to the fully hot position.

Fit the cover, making sure the PCB connector is fitted and the wires are clear of obstructions. Secure with the top and bottom fixing screws (**fig.8**).

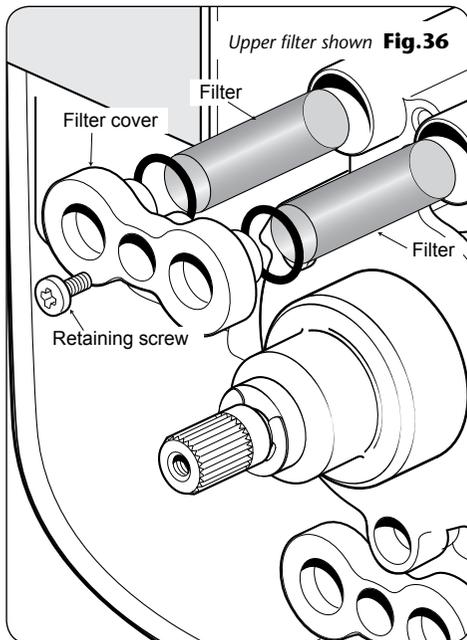
Replace the flow control so that it aligns with the 'min' position.

Fit the temperature disc (it will only fit one way) and maximum temperature stop (**fig.27**).

Replace the temperature control onto the valve spindle. Make sure the pointer aligns with setting '9' on the temperature disc (**fig.28**).

Secure with the retaining screw and fit the cover trim.

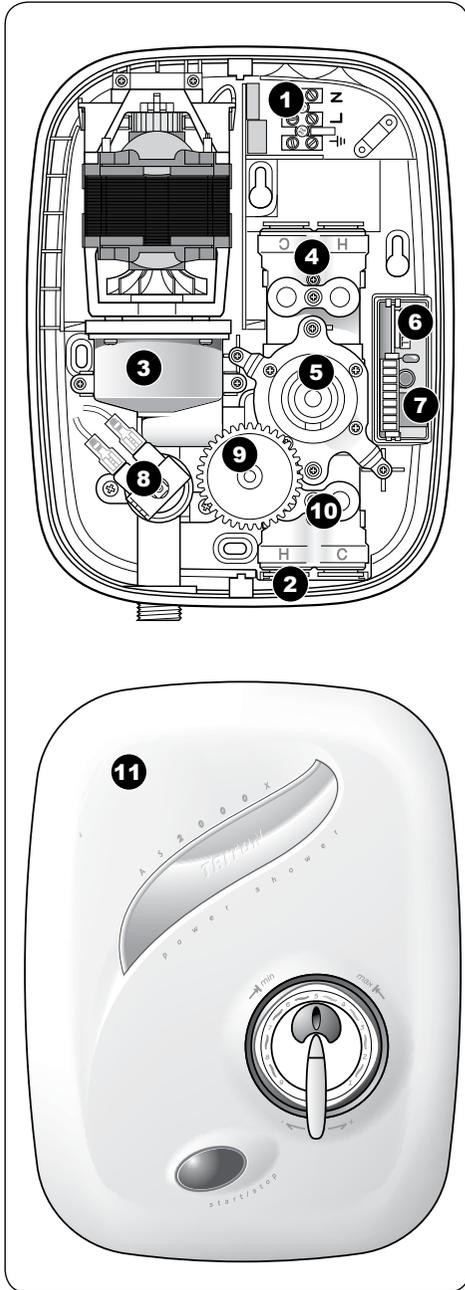
Switch on the electricity supply to the unit and then turn on both water supplies.



**WARNING!**

**Switch off the electricity supply and turn off both hot and cold water supplies to the unit before proceeding further.**

**SPARE PARTS**



<i>Ref.</i>	<i>Description</i>	<i>Part No.</i>
<b>1</b>	Terminal block.....	22001320
<b>2</b>	Plastic inlet elbow plug x1 .....	7052140
<b>3</b>	Pump and motor assembly.....	84000130
<b>4</b>	Pipe inlet elbow .....	83305320
	c/w filters and check valves	
<b>5</b>	Temperature valve.....	83305280
<b>6</b>	Link pin .....	22009060
<b>7</b>	PCB unit.....	7073738
<b>8</b>	Solenoid assembly .....	22012190
<b>9</b>	Gear.....	7052184
<b>10</b>	Filter (pair) .....	83305330
	- Pipe trim .....	7052146
	- Pipe removing tool.....	7052144
	- Potentiometer harness.....	P09440900
	- Bracket.....	7052183
	- Wire kit .....	83311410
<b>11</b>	Cover assembly .....	P09440600
	- Maximum temperature stop.....	7052186
	- Temperature control.....	P09441000
	c/w override button	
	- Flow control.....	7053275
	- Temperature disc.....	7053277
	- Flow control trim.....	7053276
	- Temp control cover trim.....	7053280
	- Rear entry elbow .....	22012890

**FAULT FINDING**

**IMPORTANT:** Switch OFF the electricity at the mains supply and remove the correct circuit fuse before attempting any fault finding inside the unit.

<i>Symptom</i>	<i>Cause</i>	<i>Action/Cure</i>
<b>1</b> Water too hot.	<b>1.1</b> Not enough cold water flowing through shower.	<b>1.1.1</b> Turn the temperature control clockwise.
	<b>1.2</b> Increase in the ambient cold water temperature.	<b>1.2.1</b> Turn the temperature control clockwise.
	<b>1.3</b> Cold inlet filter blocked or check valve sticking.	<b>1.3.1</b> Remove filter and clean. If problem is with check valve, contact Customer Service.
	<b>1.4</b> Cold water supply blocked or cut off.	<b>1.4.1</b> Isolate shower and consult a competent plumber or contact Customer Service.
<b>2</b> Water too cold.	<b>2.1</b> Not enough hot water flowing through shower.	<b>2.1.1</b> Turn temperature control anti-clockwise.
	<b>2.2</b> Decrease in ambient cold water temperature.	<b>2.2.1</b> Turn temperature control anti-clockwise.
	<b>2.3</b> No hot water in the storage cylinder.	<b>2.3.1</b> Turn shower off and wait for hot water cylinder to reheat.
	<b>2.4</b> Hot inlet filter blocked or check valve sticking.	<b>2.4.1</b> Remove filter and clean. If problem is with check valve, contact Customer Service.
	<b>2.5</b> Hot water supply blocked or otherwise cut off.	<b>2.5.1</b> Turn shower off. Consult a competent plumber or contact Customer Service.
<b>3</b> Pump does not operate.	<b>3.1</b> Interrupted power supply.	<b>3.1.1</b> Blown fuse. Check supply. Renew fuse. If it fails again consult a competent electrician. <b>3.1.2</b> Power cut. Check other appliances and if necessary, contact local Electricity Supply Co.
	<b>3.2</b> Electrical malfunction.	<b>3.2.1</b> Consult a competent electrician or contact Customer Service.
	<b>3.3</b> Motor overheated.	<b>3.3.1</b> Thermal protection on motor has operated. Allow appliance to cool and reset itself. If it persists, contact Customer Service.
	<b>3.4</b> Start/stop switch not connected.	<b>3.4.1</b> Remove cover and connect start/stop switch.

**Any maintenance or repair to the shower must be carried out by a suitably competent person.**

**FAULT FINDING**

<i>Symptom</i>	<i>Cause</i>	<i>Action/Cure</i>
<b>4</b> Water does not flow or is reduced.	<b>4.1</b> Water supplies cut off.	<b>4.1.1</b> Check water elsewhere in house and if necessary contact the local Water Company.
	<b>4.2</b> Shower blocked or air in the system.	<b>4.2.1</b> Switch off shower and contact Customer Service.
	<b>4.3</b> Showerhead blocked.	<b>4.3.1</b> Clean showerhead.
	<b>4.4</b> Blocked filters.	<b>4.4.1</b> Clean filters.
<b>5</b> Cross flow of hot and cold water into system.	<b>5.1</b> Dirt/debris in check valves.	<b>5.1.1</b> Isolate water to unit. Remove check valves. Clean and replace.
<b>6</b> Water dripping from showerhead when turned off.	<b>6.1</b> Debris in solenoid valve.	<b>6.1.1</b> Call Customer Service.
	<b>6.2</b> Potentiometer faulty.	<b>6.2.1</b> Call Customer Service.
<b>7</b> Pump is noisy or air lock in pump.	<b>7.1</b> Air lock in pump.	<b>7.1.1</b> Call Customer Service.
	<b>7.2</b> Worn pump bearings.	<b>7.2.1</b> Replace pump.
<b>8</b> Unit running erratically.	<b>8.1</b> Blanking plugs not fitted into unused inlets.	<b>8.1.1</b> Fit blanking plugs into unused inlets.

**In the unlikely event of a fault occurring please contact Triton Customer service. DO NOT remove the shower from the installation.**

# Entry Points

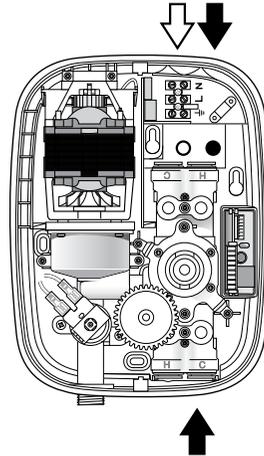
## Diagram Key:



Water Entry Points



Cable Entry Points



## WEEE Directive – Policy Statement

As a producer and a supplier of electric showers, Triton Showers is committed to the protection of the environment via our own environmental policy and the compliance with the **WEEE directive**.

Triton Showers is fully registered with the Environment Agency under the following schemes:

Repic: Producers take-back scheme (PTS), registration number WEE/EJ3466QV

Valpak: Distributor take-back scheme (DTS), registration number 9659

All our electric products are labelled accordingly with the crossed out wheeled bin symbol. This indicates, for disposal purposes at end of life, that these products must be taken to a recognised collection points, such as local authority sites/local recycling centres; this will be free of any charges. **Do not return to Triton Showers.**



## UK SERVICE POLICY

In the event of a product fault or complaint occurring, the following procedure should be followed:

1. Telephone Customer Service on **02476 378495** having available, your details including post code, the model number and power rating of the product, together with the date of purchase and, where applicable, details of the particular fault.
2. If required, the Customer Service Advisor will arrange for a qualified engineer to call.
3. All products attended to by a Triton service engineer must be installed in full accordance with the Triton installation guide applicable to the product. (*Every product pack contains an installation guide, however, they can also be bought via our Customer Service Spares Department*).
4. Our engineer will require local parking and if a permit is required this must be available to the engineer on arrival at the call.
5. It is essential that you or an appointed representative (*who must be over 18 years of age*) is present for the duration of the service engineer's visit. If the product is in guarantee you must produce proof of purchase.
6. Where a call under the terms of guarantee has been booked and the failure is not product related (*i.e. scaling and furring, incorrect water pressure, pressure relief device operation or electrical/plumbing installation fault*) a charge will be made. A charge will also be issued if nobody is at home when the service engineer calls or adequate parking/permit is not available.
7. If the product is no longer covered by the guarantee an up front fixed fee will be charged before the site visit.
8. Should proof of purchase not be available on an "in-guarantee" call, or should the service engineer find that the product is no longer under guarantee, the engineer will charge the same fixed price and the customer will be expected to pay the engineer before he leaves. If payment is not made on the day an administration charge will be added to the fixed charge.
9. If a debt is outstanding from a previous visit, or from any other Triton purchase, Triton reserves the right to withhold service until the debt has been settled.
10. Triton takes the health, safety and wellbeing of its employees very seriously and expects customers to treat all staff members with respect. Should any employee feel threatened or receive abuse, either verbally or physically, Triton reserves the right to withhold service and will support the employee with a legal prosecution.

## Replacement Parts Policy

**Availability:** It is the policy of the manufacturer to maintain parts availability for the duration of production and a period of five years thereafter, in accordance with industry standards.

Spare parts are available via our website, [www.tritonshowers.co.uk](http://www.tritonshowers.co.uk), or by telephoning Triton Customer Service Spares Department. Payment should be made by credit/debit card (excluding American Express or Diners Card). Payment can also be made by pre-payment of a pro forma invoice by cheque or money order.

Telephone orders are based on information given during of the call.

**Before contacting Triton, please verify your requirements using the information contained in the supplied user guide. Triton cannot accept liability for incorrect part identification.**

## TRITON STANDARD GUARANTEE

With the exception of accessories, Triton guarantee the product against all manufacturing defects for a period of **1 year** (for domestic use only) from the date of purchase, provided that it has been installed by a competent person in full accordance with the fitting instructions.

All accessories such as shower heads, hoses and riser rails carry a **1 year** parts only guarantee against manufacturing defects.

Any part found to be defective during this guarantee period we undertake to repair or replace at our option without charge so long as it has been properly maintained and operated in accordance with the operating instructions, and has not been subject to misuse or damage. This product must not be taken apart, modified or repaired except by a person authorised by Triton. This guarantee applies only to products installed within the United Kingdom and does not apply to products used commercially. This guarantee does not affect your statutory rights.

### What is not covered:

1. Breakdown due to: **a)** use other than domestic use by you or your resident family; **b)** wilful act or neglect; **c)** any malfunction resulting from the incorrect use or quality of electricity, gas or water or incorrect setting of controls; **d)** failure to install in accordance with this installation guide
2. Claims for missing parts once the product has been installed.
3. Repair costs for damage caused by foreign objects or substances.
4. Total loss of the product due to non-availability of parts.
5. Compensation for loss of use of the product or consequential loss of any kind.
6. Call out charges where no fault has been found with the appliance.
7. The cost of repair or replacement of pressure relief devices, showerheads, hoses, riser rails and/or wall brackets, isolating switches, electrical cable, fuses and/or circuit breakers or any other accessories installed at the same time.
8. The cost of routine maintenance, adjustments, overhaul modifications or loss or damage arising therefrom, including the cost of repairing damage, breakdown, malfunction caused by corrosion, furring,
9. Call out charges where the water supply cannot be isolated, this includes consequential losses arising from unserviceable supply valves.

**For the latest Terms & Conditions, please see:**  
[www.tritonshowers.co.uk](http://www.tritonshowers.co.uk)

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**Fax: 02476 324504**

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