



Installation Instructions and User Guide

**NEWTEAM 201-T
THERMOSTATIC POWER SHOWER**

**IN THE EVENT OF ANY QUERY PLEASE CONTACT
THE NEWTEAM CUSTOMER HELPLINE**

Tel : 01536 264 012

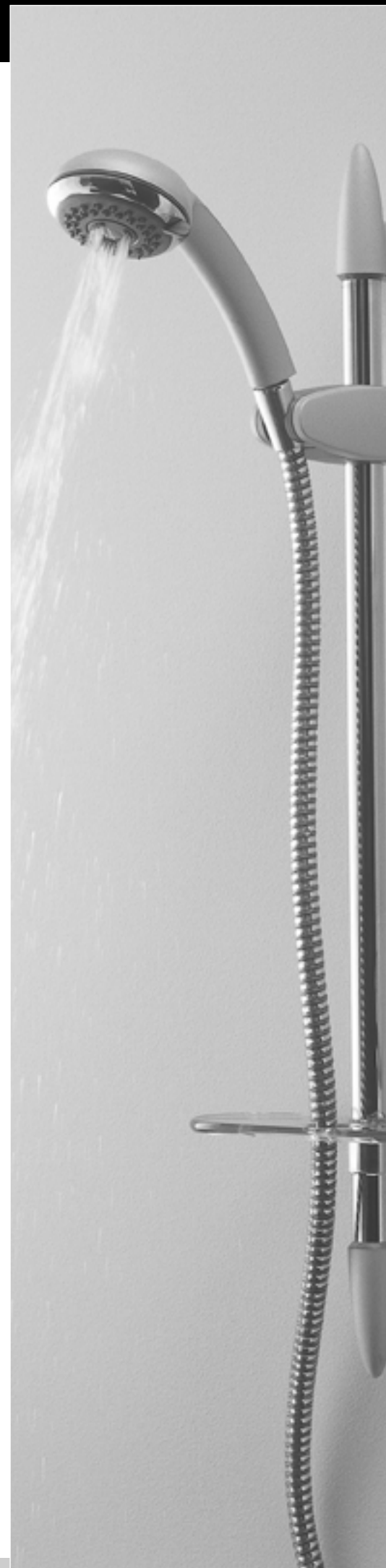
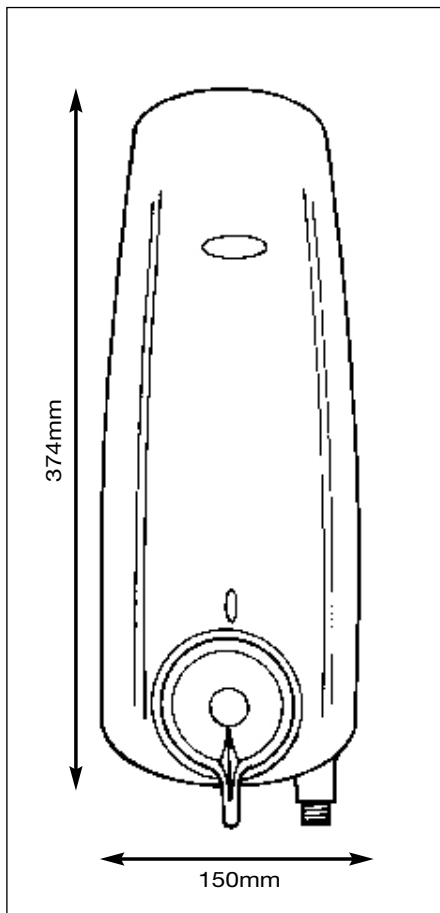
NewTeam

**PLEASE KEEP THIS BOOKLET
FOR FUTURE REFERENCE**

**DEAR INSTALLER WHEN YOU HAVE READ THESE INSTRUCTIONS
PLEASE ENSURE YOU LEAVE THEM WITH THE USER**

NewTeam 201-T Power Shower

- Integral Pump
- Push Fit Fittings
- 3 Spray Handset
- Thermostatic Control Option
- BEAB Approval of Safety



Installation and Operating Instructions for NewTeam Power Shower

• 201-T Thermostatic

Please read this booklet carefully and ensure a competent person undertakes the installation.

Note: Following the headings in sequence will guide you through the installation and operation of your NewTeam 201-T Power Shower.

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Refer to back cover for Guarantee, Customer Service and Replacement Parts Policy. In the event of any query regarding installation please contact the NewTeam Customer Service Department

Tel: 01536 264 012 • Fax: 01536 409 201

E-mail: service@newteam.co.uk • E-mail: spares@newteam.co.uk

In line with our policy of continual product development the specifications may be varied and product design altered. We reserve the right to depart from the details given in this manual without prior notice.

Plumbing

- For correct operation of the NewTeam 201-T Power Shower both hot and cold water supplies to the unit must be gravity fed, at equal pressures, from a cold water storage tank and hot water storage cylinder, Fig1.
- We recommend a minimum 115 litre (25 gallon actual) cold water storage tank. Please ensure compliance with all Water Regulations. **Under no circumstances must the Power Shower be connected to the mains cold water supply.**
- Do not use jointing compounds, or solder within 300mm of the unit.
- Before proceeding with the installation of this unit, check that your site requirements allow the top of the unit to be a minimum of 75mm below the bottom of the cold water storage tank.

Electrics

WARNING: THIS APPLIANCE MUST BE EARTHED.

All electrical wiring for the shower must comply with the current I.E.E Regulations which includes earth-cross bonding to all metal pipework.

IMPORTANT:

All plumbing connections should be completed before any electrical connections are undertaken.

The shower must be connected to a 230/240 volt. A.C electrical supply from a 13-amp ring main, via a fused double pole switch with at least 3mm contact separation. The switch is to be clearly identifiable, but out of reach of a person using a fixed tap or shower, i.e. mounted in an adjacent room. It should be fused at no more than 3 amps.

As the colours of the wires in the cable (not supplied) used to connect to this appliance may not correspond with the coloured markings identifying the terminals in your switch, please follow the procedure below:

Procedure:

- The wire, which is coloured Blue or Black, must be connected to the terminal that is marked with the letter N.
- The wire, which is coloured Brown or Red, must be connected to the terminal that is marked with the letter L.
- The wire which is coloured Yellow/Green must be connected to the terminal which is marked with the earth symbol \oplus .
- The installation and wiring must comply with I.E.E regulations.

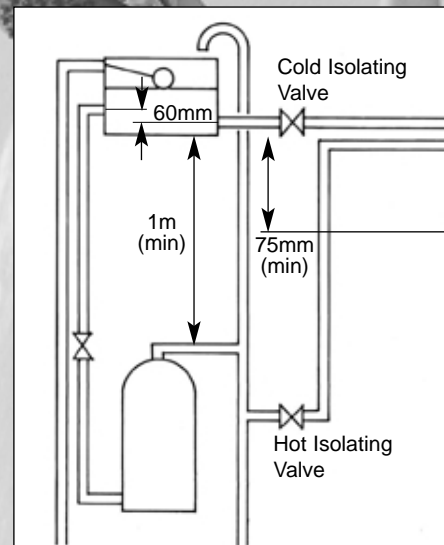


Fig 1 - Installation Diagram

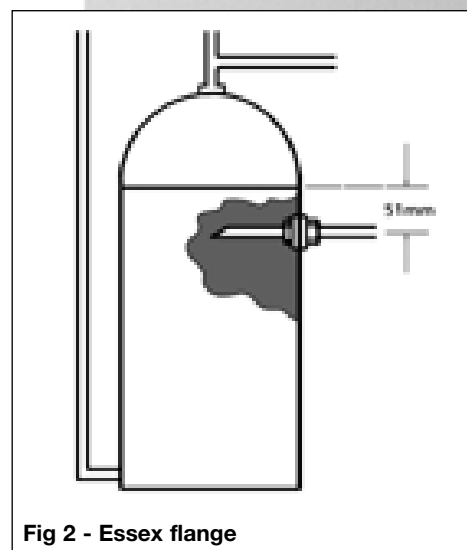


Fig 2 - Essex flange

General

In addition to the recommendation on 'Planning your Installation' please take note of the following:

- All plumbing should be completed before any electrical connections are undertaken.
- The unit can be connected to a combination cylinder system providing it has a cold water storage capacity of 115 litres (25 gallons actual).
- When connecting pipework avoid using elbows: sweep or formed bends will ensure optimum performance.
- Do not solder within 300mm of the unit.
- Do not run pump dry as this will damage the internal seals and invalidate the warranty.
- All pipework to and from the unit should be a minimum of 15mm. Non-restrictive isolating valves must be fitted on hot and cold supply pipes.
- Do not position unit in areas subjected to freezing conditions.
- The temperature of your stored water must not exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all normal requirements in line with the British Standard 6700.

WARNING – ALL CONNECTING PIPEWORK SHOULD BE EARTHED

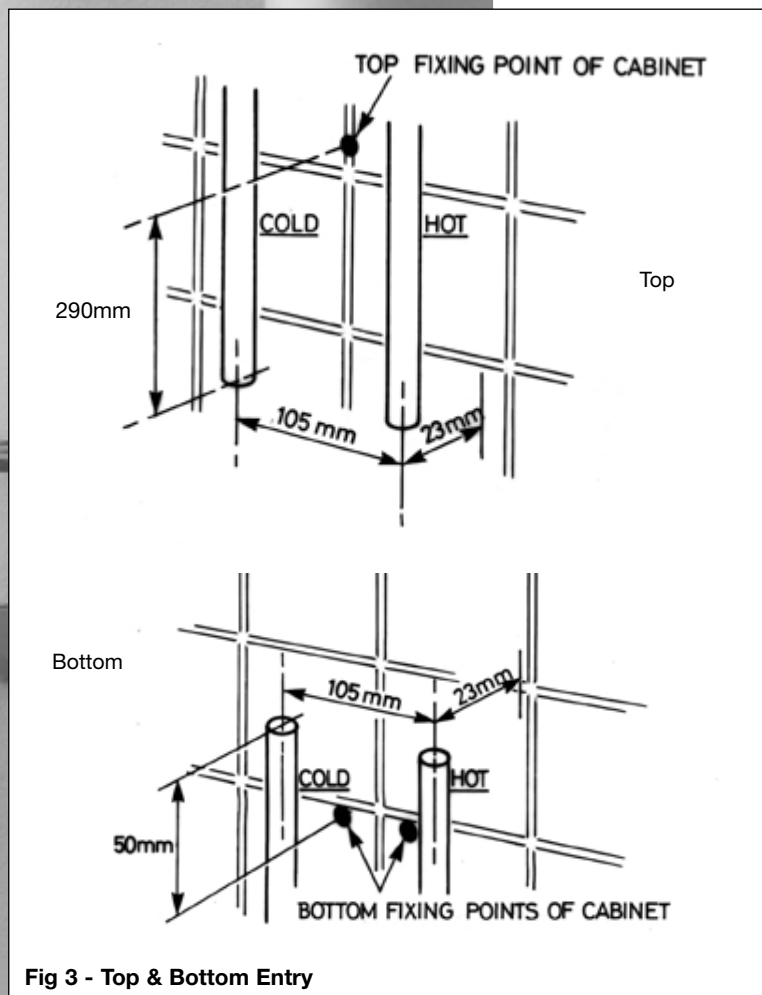
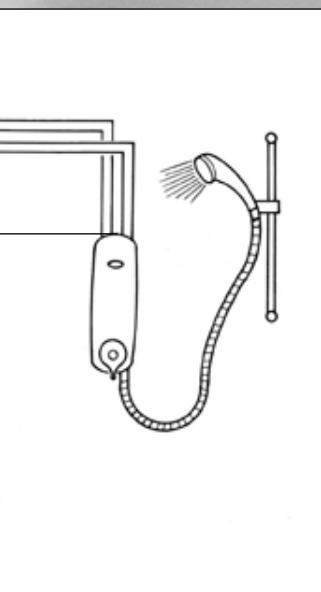


Fig 3 - Top & Bottom Entry

Procedure - Plumbing Connections Fig 1.

1. Isolate mains water and electrical supplies.
2. To empty the pipework open the hot and cold water taps.
3. Make your connection into the hot water supply pipe from the cylinder, ensuring that it is the first draw-off (below the expansion pipe tee) to minimise the effects of water draw offs elsewhere in the house, and a minimum of 1 metre from the base of the cold storage tank and the top of the hot water cylinder.
4. If this is not possible, a direct connection must be made from the hot water cylinder with a cylinder flange, Fig 2.
5. The cold water supply should be taken directly from the cold storage tank, and must be positioned 60mm below the cold feed connection to the hot water cylinder. This should not be directly beneath the ball valve as aeration of the water going to the shower could cause pump damage.
6. Run hot and cold pipework to the unit position.
 - The hot supply should be taken as the first draw off below the expansion tee, on the vertical pipe to minimise the effects of other hot draw offs elsewhere in the house.
 - The shower supply pipes can be brought either from above or below the shower unit with 105mm centers with **COLD ON THE LEFT AND HOT ON THE RIGHT**. The inlet elbows for the pipework rotate through 360° for top or bottom entry Fig 3.

General (Contd.)

WARNING:

DO NOT POINT THE INLET ELBOW FITTINGS DIRECTLY BACK INTO THE WALL (SEE FIG 6).

When the pipework is to enter the unit from the rear it must be brought through the tiled surface, as in Fig 4. Any gap between the pipework and the tiles should be sealed with a suitable sealant to prevent water ingress into the wall.

Fitting the Shower

We recommend that the shower unit is fitted at chest height, and set to one side of the intended riser rail position, ensuring that the top of the shower unit is at least 75mm below the cold water storage tank.

IMPORTANT:

- **The unit must be fitted on the finished tiled surface**

WARNING:

DO NOT SEAL THE EDGE OF THE SHOWER UNIT TO THE TILED SURFACE WITH ANY FORM OF SEALANT. THE GAP BETWEEN THE BACK OF THE SHOWER UNIT AND THE TILES IS NEEDED FOR VENTILATION.

THE OUTLET CONNECTION FOR THE HOSE SHOULD BE SITED AT THE BOTTOM OF THE UNIT.

DO NOT FIT A FUSE OR SWITCH ON MAINS ELECTRICAL SUPPLY UNTIL ALL PLUMBING WORK IS COMPLETED.

Procedure: Fig 5.

1. Ensure that all burrs are removed from the ends of the supply pipes. Where chromium plated pipe is used then the first 25mm of chrome must be roughened or removed to ensure that the push fit fittings in the supply retain the pipe in position.
2. Flush out the supply pipes to ensure that no debris enters the unit.
3. Prise the cover cap (1) off and remove the fixing screw (2). Lift off the temperature control lever (3), the over-ride assembly (4) and the flow lever (5).
4. Remove the two shower unit cover fixing screws (6) and lift off the cover (7).
5. If the pipework is to enter the shower unit above or below, as in Fig 3., then the appropriate pipe entry inserts should be removed (8).
6. Place the unit onto the wall in the chosen position and mark the three fixing points.

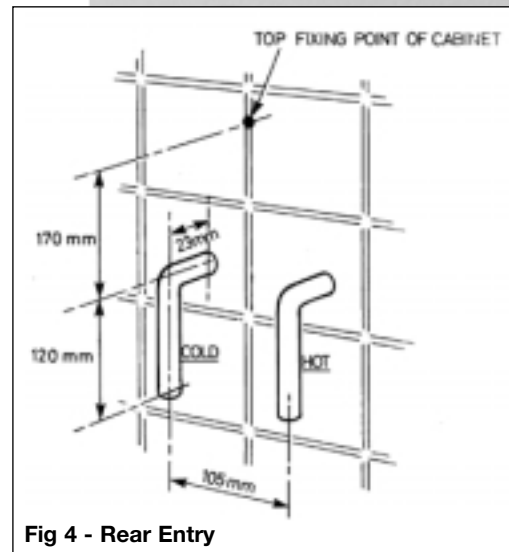


Fig 4 - Rear Entry

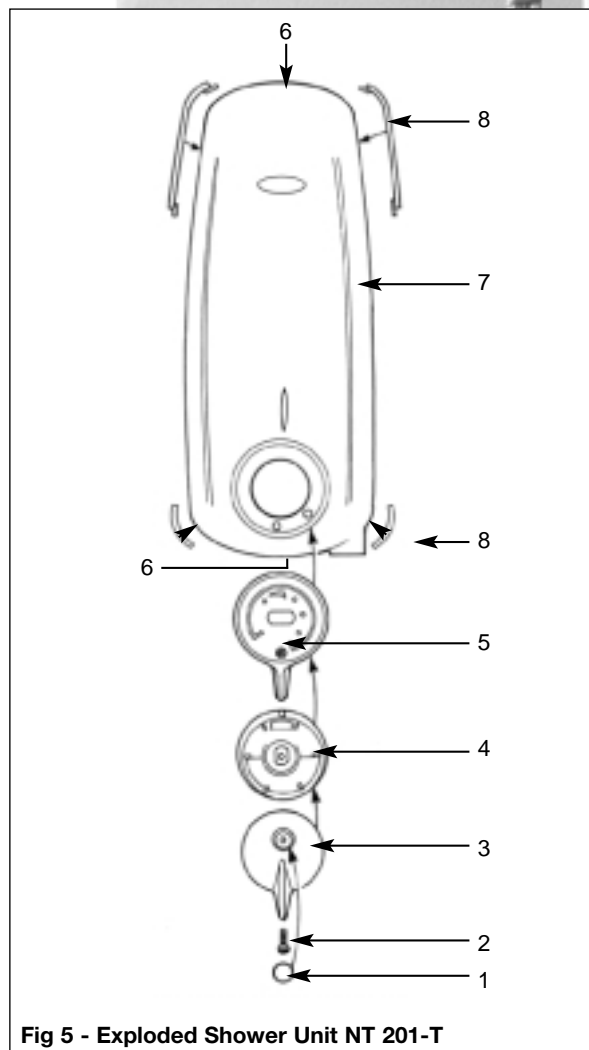


Fig 5 - Exploded Shower Unit NT 201-T

Fitting the Shower (Contd.)

7. Drill the tiled wall with a 6mm suitable drill bit at these points ensuring that there are no hidden pipes or cables in the wall.
8. Insert the wall plugs provided. If the shower unit is to be fixed to a cavity wall then a suitable wall fixing should be used.
9. Push the shower unit onto the supply pipes ensuring that 30mm enters the push fit fitting for both hot and cold. Should the shower unit need to be removed from the supply pipes then the grey locking collets should be pressed firmly against the elbows and the pipework can be removed, (Fig 6).
10. Secure the shower unit to the wall with the three 32mm x No 8 fixing screws provided.
11. Feed the supply cable into the shower unit through any of the pipe entry points.
12. Connect the wire which may be coloured Brown or Red to the terminal marked **L**. Connect the wire which may be coloured Black or Blue to the terminal marked **N**. Connect the wire which may be coloured Yellow/Green to the terminal marked **E**.
13. Secure the cable underneath the cable clamp and tighten the two fixing screws.
14. Refit the front cover and secure with the two screws.
15. Refit the flow lever (5. Fig 5.) ensuring that the two protruding legs on the back of the lever locate on the two flats of the cartridge.
16. With the black line (Thermostatic valve only) on the brass spindle in line with the groove on the cartridge, place the over-ride assembly (4. Fig 5.) onto the valve with the red button aligned with the white dot on the flow lever, (Fig 7).
17. Fit the temperature control lever (3. Fig 5.) with it aligned with the flow lever.
18. Fit and tighten the fixing screw (2. Fig 5.) and push on the cover cap (1. Fig 5.).

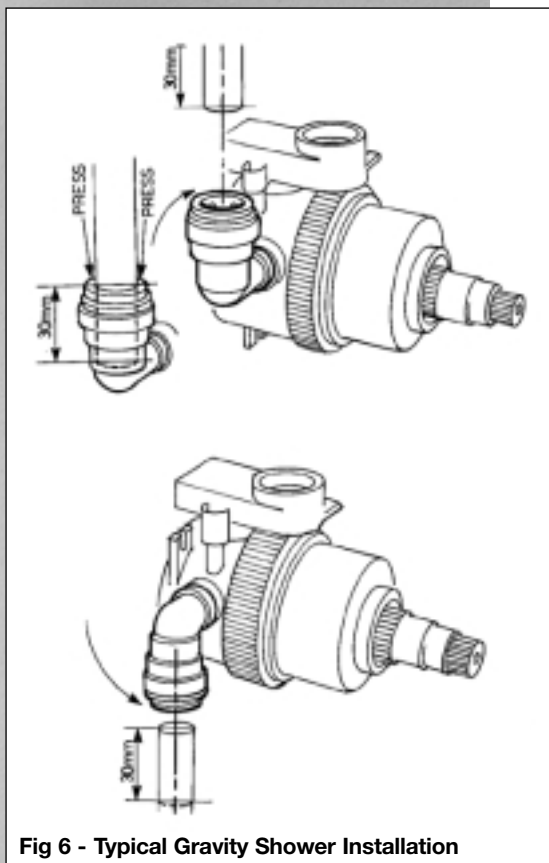


Fig 6 - Typical Gravity Shower Installation

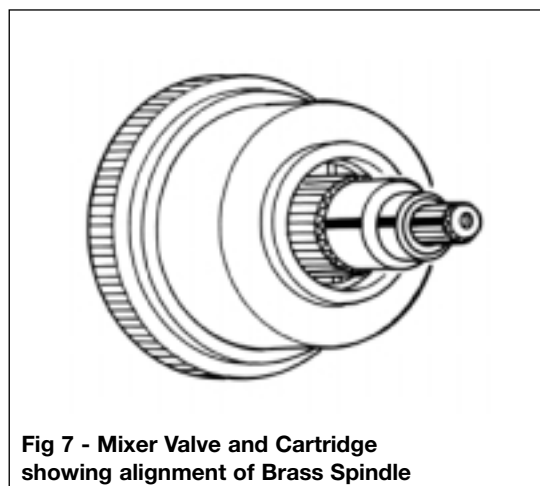


Fig 7 - Mixer Valve and Cartridge showing alignment of Brass Spindle

Cardinal Riser Rail

Before proceeding with fitting the rail, identify each of the items supplied using the illustration.

No	Part Description
1	Rail end mouldings
2	Rail end covers
3 & 4	Rail with slider attached
5	Soap dish
	Rail fixing screws & wall plugs

- The slider must not be removed from the rail during fitting. The top of the slider has a smooth profile, whereas the underside has a recess revealing the grooves on the handset holder.
- Fit the rail end mouldings onto the ends of the rail.
- Position the rail on the wall, bearing in mind the heights of people likely to use the shower, and mark the wall to indicate the upper and lower fixing screw positions. Drill the wall at one of the marked fixing positions using a 6 mm drill. Loosely fix the appropriate rail end and check that the other fixing screw mark is in the correct position.
- Remove the fixing screw and rail from the wall, and detach the lower rail end moulding. A locking button projects through a hole in the rail, and is pressed in to disengage the rail end moulding while it is pulled from the rail.
- Fit the rail through the friction sleeve on the soap/gel dish with the sleeve towards the lower end of the rail.
- Refit both rail ends, and secure the rail to the wall. Ensure that the rail is vertical before finally tightening both fixing screws.
- Slide the rail end covers into position on the end mouldings.
- When fitting the hose, it should pass through the centre hole of the soap dish.

NOTE: The hose nut, and not the handset handle, fits into the slider, and the slider moves more freely on the rail, if gripped next to the rail rather than at the handset.

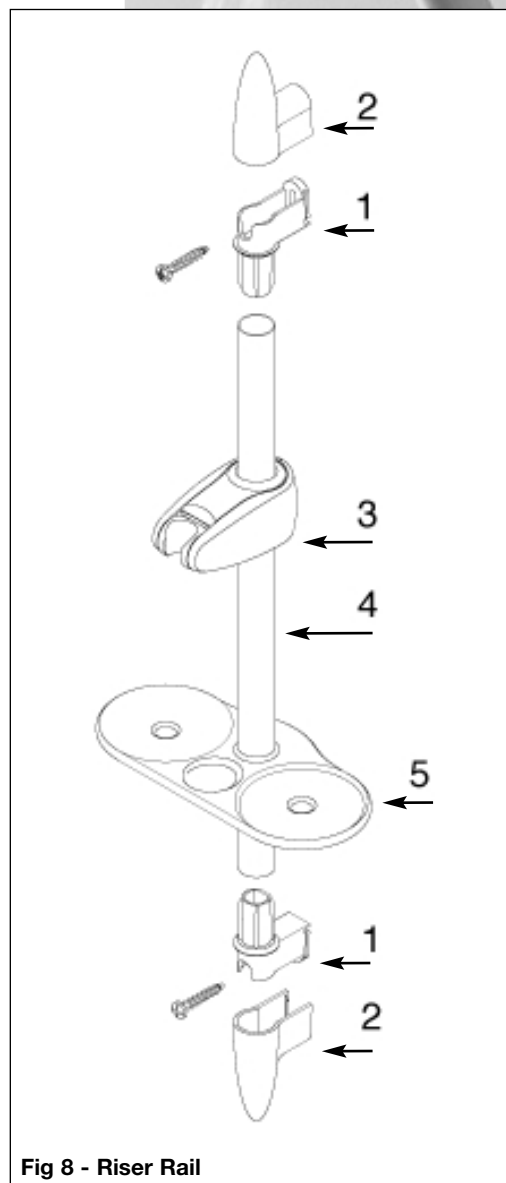
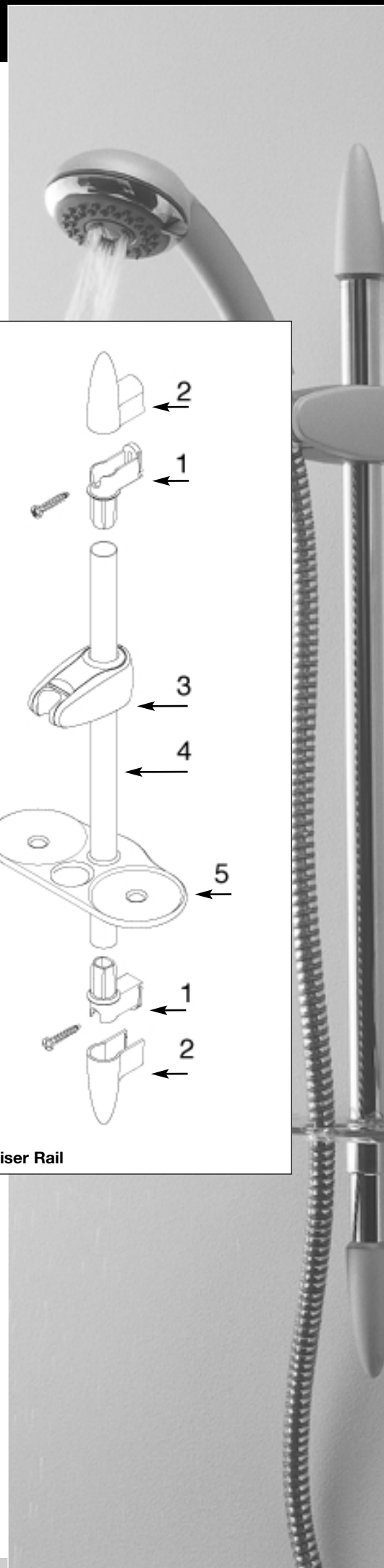


Fig 8 - Riser Rail

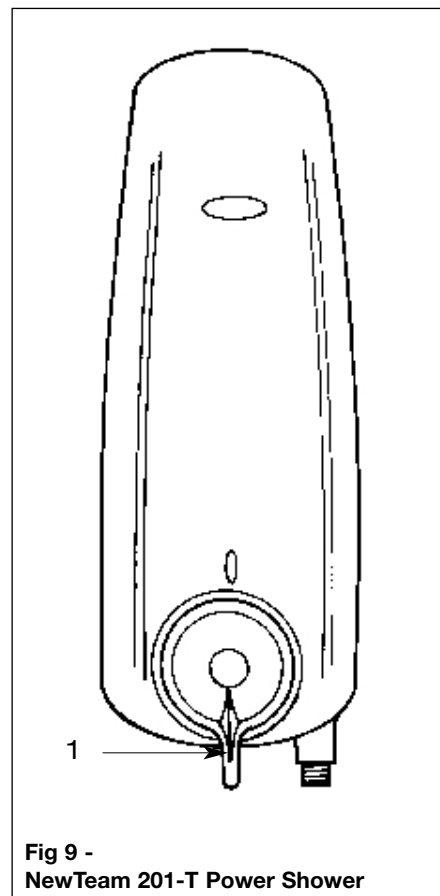


Commissioning

1. Handtighten the shower hose to the outlet connection of the shower with the rubber washer provided.
2. With the shower valve turned off, i.e. with the flow lever (1) placed at the 6 o'clock position, turn on the water supplies, Fig 9.
3. Turn the flow lever (1) anti-clockwise until the stop position is felt. Allow the water to flow until all the air is purged through. When an uninterrupted flow of water is achieved turn the flow lever (1) clockwise to the off position.
4. Handtighten the showerhead to the end of the hose with the rubber washer provided.
5. Locate the handset into position by locating the conic nut, on the end of the hose, into the cradle of the handset holder.
6. Turn on the electric supply at the switched fused spur.
7. Turn the flow control lever (1) to the full flow position and run for 2-3 minutes.

THE NEWTEAM 201-T POWER SHOWER IS NOW READY FOR USE.

If a higher or lower temperature is required for the over-ride setting then refer to the next page, 'Setting the Temperature Limit Stop'.



NT 201-T Thermostatic

SETTING THE TEMPERATURE LIMIT STOP - FIG 10

The red over-ride button and cartridge has been set at the factory to give a showering temperature of approximately 38° C when the flow control is turned to the full flow position. To alter the temperature please follow the instructions below:

1. Ensure that the hot water cylinder is up to its normal working temperature, which must not exceed 65°C. A stored water temperature of 60°C is considered sufficient to meet all normal requirements and will minimise limescale in hard water areas.
2. Remove items 1, 2, 3, and 4.
3. Select the spray mode on the shower handset and turn the flow lever (5) anti-clockwise to the full flow, the rotational stop position.
4. To give a higher temperature at the over-ride position rotate the brass spindle anticlockwise and to achieve a lower setting, rotate the brass spindle clockwise. Once the desired temperature is set turn the flow control to the off position.
5. Refit items 4, 3, 2 and 1 ensuring that the position of the brass temperature spindle is not disturbed.
6. Test the shower and demonstrate to the consumer.

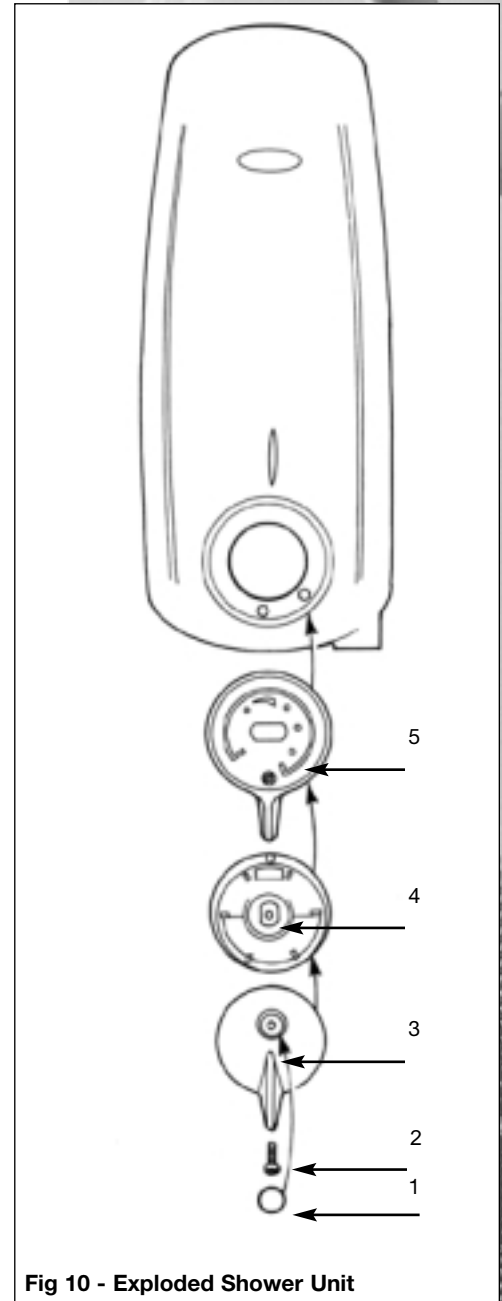


Fig 10 - Exploded Shower Unit

User Guide

The Newteam 201-T Power Shower has separate controls for both on/off flow and temperature. Fig 11.

1. Turn the flow control lever (1) anti-clockwise to turn the shower on.

NOTE: The total travel of the flow control is 30°. Do not attempt to force the flow lever past this stop.

2. The temperature lever (2) will move together with the flow lever, to give the pre-set showering temperature.
3. To increase the showering temperature above the pre-set limit, press in the red over-ride button and rotate the temperature lever anti-clockwise.
4. To decrease the showering temperature turn the temperature lever clockwise.

TEMPERATURE OVER-RIDE FACILITY

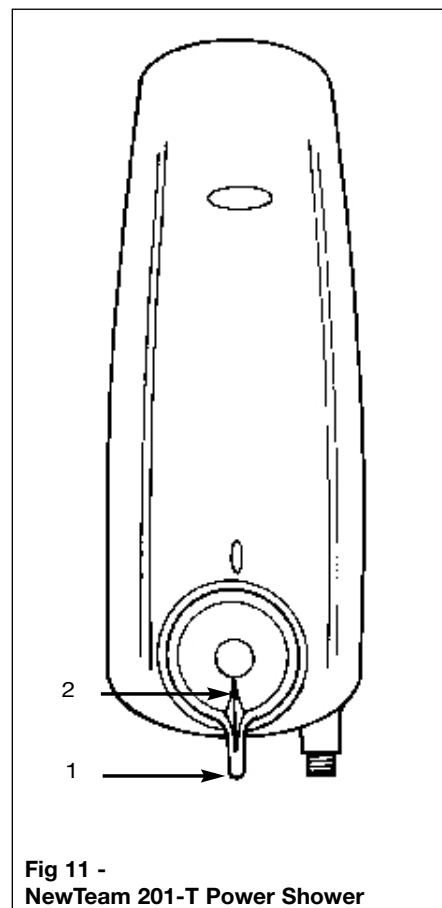
The temperature over-ride button allows the shower user to increase the shower temperature above the pre-set limit of 38°C.

Do not at anytime use bath cleaning liquids, powders or specified scratch cleaners on any surface finishes. In order to avoid surface wear or chemical attack on any of your shower fittings when cleaning, always use a damp cloth. For persistent stains or marks, you may use a domestic liquid or soap.

WARNING:

If the temperature over-ride button has been used, please ensure that the temperature lever is returned to its original position. This will ensure that the next shower user will only select the pre-set showering temperature.

Should you wish to change the maximum temperature setting for any reason then this should be carried out by a competent person following the instructions on Page 9.



**Fig 11 -
NewTeam 201-T Power Shower**

Handset

The handset has three spray modes:

Spray • Massage • Combination

To select the desired showering mode, grip the bezel of the handset and turn in either direction.

RUB-CLEAN FEATURE:

To remove any build up of limescale from your handset, remove it from its holder and rub your fingers over the rubber spray jets. Turn the shower on and any built up limescale will be flushed out of the handset.

Troubleshooting

WARNING:

Before carrying out any general repairs or test to the shower, please ensure that the electricity supply is turned off at the mains and the correct circuit fuse is removed.

Symptom	Likely Cause	Action/Remedy
Pump not operating	Electric supply not switched on Micro switch not closing Pump may have overheated	Check all fuses and electric supply Replace micro switch Ensure that there is free flow of air between the shower unit and tiled wall
Pump operates when the unit is switched off	Micro switch is faulty	Replace micro switch
No water flow	Isolating valves turned off Air-lock in pipework Pipework to shower runs above cold storage tank	Turn valves on Contact installer Re-pipe in accordance with installation guide
Poor performance	Restriction in the hot or cold supplies	Contact installer
Unit passes water when turned off	Inlet seals in valve cartridge faulty	Contact NewTeam Service Department: Tel - 01536 264012

**If system will still not run, contact
NewTeam Customer Service Department (01536) 264012.**



NT 201-T Spare Parts Listings

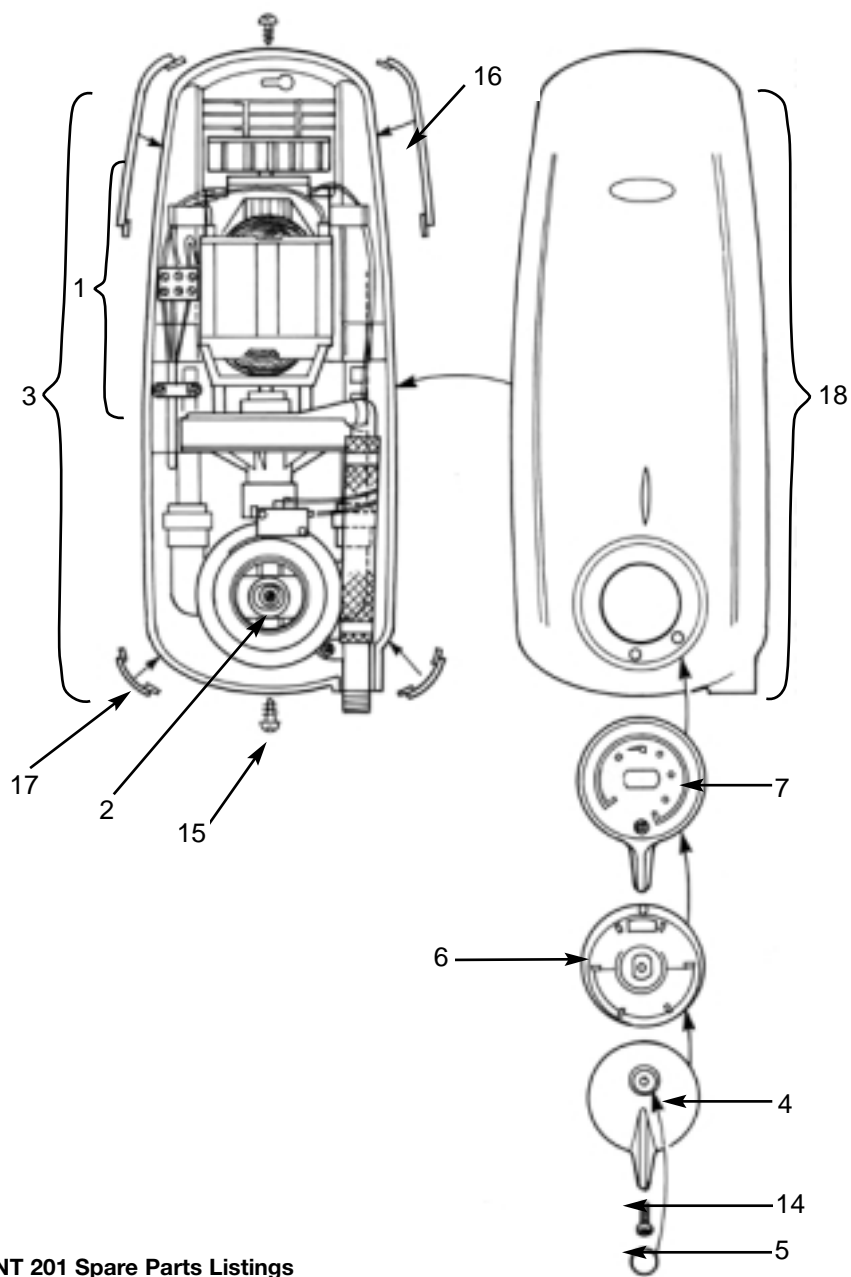


Fig 12 - NT 201 Spare Parts Listings

Item No	Part No	Description
1	SP-077-0045	Single Stage Pump Assembly
2	SP-077-0022	Thermostatic Cartridge
3	SP-077-0046-**	Base Assembly (Thermostatic)
4	SP-077-0055-**	Temperature Lever
5	SP-077-0052-**	Temperature Cap
6	SP-077-0060	Over-ride Assembly
7	SP-077-0107	Flow lever
8 (Not Shown)	SP-280-0300	Riser Rail & Slider Assembly
9 (Not Shown)	SP-280-0400	Rail End Assembly
10 (Not Shown)	SP-490-0435	Screw Pack
11 (Not Shown)	SP-179-0300-**	Plusspray Rub-clean Handset
12 (Not Shown)	SP-285-0038-**	Shower Hose
13 (Not Shown)	SP-255-0010-**	Soap Dish 25mm
14	SP-490-0224	Knob Screw
15	SP-490-0052	Cover Screws (2)
16	SP-077-0120	Pipe Entry Inserts Top (2)
17	SP-077-0121	Pipe Entry Inserts Bottom (2)
18	SP-NT201T-COVER	Thermostatic Front Cover

** Please specify colour

Guarantee

Thank you for purchasing a NewTeam product, which has been designed, manufactured and tested, in the U.K., to the highest standards, by NewTeam Ltd.

Guarantee. 2 Years - First Year - Parts and Labour, Second Year - Parts Only

This is provided that:

1. The guarantee registration card is completed and returned within ten days complete with a copy of proof of purchase.
2. The product is installed and operated in accordance with our instructions and has not been misused or damaged.

This in no way affects your statutory rights as a consumer.

The information on the Guarantee card helps NewTeam to process any claims and contact you about your product and its maintenance if required. The registration of your personal details is purely for NewTeam use, and the other information helps us to make products for the future.

NewTeam Shower products are designed, manufactured and tested to the highest standards.

Should a complaint arise, products are guaranteed against faulty workmanship and materials for a period of 12 months from the date of purchase, when in domestic use (second year guarantee is parts only). For your guarantee to be valid, your shower must be installed by a competent person, in accordance with the instruction manual.

NewTeam will repair or replace (at our option), free of charge, any faulty components during the guarantee period, provided it has been maintained and operated in accordance with our instructions, and has not been misused or damaged.

Modification or repair of this product by person(s) not authorised by NewTeam will invalidate this guarantee.

This guarantee applies to products purchased within the United Kingdom or Republic of Ireland, but does not apply to products used commercially.

This guarantee does not affect your statutory rights.

Service Policy - Replacement Parts Policy

IMPORTANT:

In the event of product or component malfunction, DO NOT tamper with or remove the product from site. Telephone NewTeam Customer Service Department on 01536 264 012 and be prepared with the date of purchase, model number and a description of the complaint.

Our service staff are fully qualified to advise on correct installation procedures and will be able to diagnose whether the fault will require a replacement part or a visit from a NewTeam engineer.

If required, a service call will be booked, and either yourself or an appointed representative (who should be a person of 18 years or over) must be present during the visit.

All site visits to product within the guarantee period will be carried out free of any parts or labour charges provided the conditions of the guarantee have been adhered to. (Second year guarantee is parts only)

All site visits to product out of guarantee will be subject to charges for parts and labour which is payable by you or your appointed representative at the time of the visit. Charges will also be levied on cancelled appointments, unless advised to NewTeam at least 24 hours in advance of the agreed date and time.

We reserve the right not to undertake work where payment cannot be made to our engineer at the time of the visit.

NewTeam hold stocks of components for all their range of products and these will be maintained for the duration of their life.

Should a product be discontinued, spare parts stocks will be maintained, but in the event of a part becoming unavailable NewTeam reserve the right to supply a substitute of equal quality.

The following payment methods can be used to obtain spare parts:

By post, pre-payment of proforma invoice by cheque or postal order.

By telephone quoting credit card (Mastercard, Visa or Visa Delta) details.

REPLACEMENT PARTS:

Tel: 01536 409 222 • Fax: 01536 409 201 • E-Mail:spares@newteam.co.uk

CUSTOMER SERVICE HOTLINE:

Tel: 01536 264 012 • Fax: 01536 409 201 • E-Mail:service@newteam.co.uk



NewTeam

GUARANTEE CARD

Please post immediately enclosing a copy of proof of purchase

NewTeam 201-T Thermostatic Power Shower

Proof of purchase enclosed

YES

NO

FOR NEWTEAM USE

AFFIX PRODUCT LABEL HERE

This label identifies your product and provides all the information needed

NAME: _____

ADDRESS: _____

POSTCODE: _____

DATE OF PURCHASE: _____

PRODUCT PURCHASED FROM: _____

TOWN: _____

NewTeam's philosophy is to offer outstanding products with quality and integrity, please help us by taking the time to answer the following questions. Thank you.

MARKETING INFORMATION

1. Please state your profession: Plumber Builder Electrician Customer
Other (please specify) _____

2. Please state the reason for purchasing a shower: New Build Replacement
Renovation Other (please specify) _____

3. If the product is a replacement shower, please state the type and make of the shower it is replacing: _____

4. What influenced you to purchase the NT 201-T Power Shower? Advertisement
Trade Press Recommendation from Stockist Recommendation from Installer
Other (please specify) _____

5. Please state your main reason for purchasing the NT 201-T Power Shower:
NewTeam Product Knowledge Product Features Product Styling Price
Other (please specify) _____

Please tick here if you do not require any further information or product updates from NewTeam

POST BACK

FOLD AND TAPE AS INSTRUCTED OVERLEAF

Please tape down

Please tape down

3rd Fold

Affix
Stamp



NewTeam Ltd.

Customer Service Dept.
Brunel Road
Earlstrees Industrial Estate
Corby
Northants
NN17 4JW

1st Fold

2nd Fold