

# Handling, Installation and Care

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Every Cast Iron radiator has been carefully built by craftsmen to your particular specifications. It has been fully pressure tested to ensure water tightness then finished using high quality materials. We want your delivery and installation to go as smoothly as is possible so please read all of the information provided. If you have any questions or queries please do not hesitate to contact your supplier.

Mishandling after delivery and poor storage or installation can lead to faults and possibly leaks. In order to ensure that your radiators remain in good condition, please read this information sheet carefully and retain for your future records.

Maximum Operating Pressure = 2.5 bar (max. test pressure = 3.3 bar)

Neo Georgian Range Maximum Operating Pressure = 6 bar (max. test pressure = 7.8 bar)

## Delivery

*Always refer to HSE guidelines when lifting heavy objects. NEVER attempt to lift heavy radiators on your own! Always wear and use suitable protective equipment.*

Cast iron radiators are very heavy: Please ensure you have enough manpower available to move your order when it arrives. Whilst your radiator is on a pallet, its full length is supported. Once the radiator is removed from the pallet it must be carried in the upright position (columns vertical) at all times. The gasket seals could become compromised (more likely with longer radiators) if you carry the radiator unsupported horizontally as it creates a considerable strain on the joints and this may result in a leak also please do not drag the radiator around the feet could be snapped off!

**Tip:** *It may help to insert suitably strong pieces of wood between the sections to aid carrying (Fig.1 opposite).*

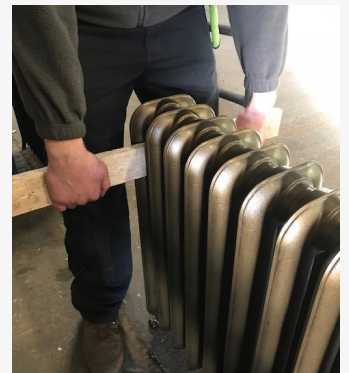


Fig.1

## The Custom Finished Radiator

If you have ordered one of our paint finishes all care has been taken to avoid damage to your radiator during transit however if any light marking has occurred during the handling, unpacking, installation and use of your radiator we provide a colour matched touch up paint pot (for historical or metallic finishes only) with every order. Painted finishes only require occasional light dusting with a lint free cloth, no harsh or abrasive chemicals should be used.

## The Hand Polished Radiator

Our specialised expert hand polishing creates a particularly handsome bright finished cast iron surface. It is lacquered to protect the surface and it will only require occasional light dusting with a lint free cloth, no harsh or abrasive chemicals should be used.

## Extremely Important! System Water Treatment

Cast iron radiators are suitable for use on sealed or open vented heating systems only. They must not be used on secondary HWS circuits. Upon completion of the installation the entire system must be thoroughly cleaned and flushed to remove debris and flux residues etc. When a chemical cleanser is used it must be thoroughly flushed from the system, following this procedure the system must be dosed with a high-quality water treatment to prevent corrosion. Always use a Buildcert approved inhibitor.

We recommend Fernox products for your system water treatment as these products are fully compatible with our radiators. Please note that not all system water treatments available have been tested to be compatible with our products. Always ensure and maintain (for the long term) the correct amount of treatment in your system. Please visit [www.fernox.com](http://www.fernox.com) for further information.

System design, flushing and dosing must be in accordance with BS 5449, 1990, BS EN 12828:2003 and BS 7593. We strongly recommend that you do not use artificially softened water in the heating system as this type of treatment may cause excessive corrosion issues. It is important to note that failure to observe these requirements will render the guarantee on the products void. Corrosion inhibitors must be used in accordance with the manufacturer's instructions and recommendations and should take into account the particular metals within the system.

### **Bush/Valve Installation**

Please note that a unique feature of cast iron radiators is that the top and bottom threads on one side of the radiator are Left Hand threaded. This means that any Left Hand threaded bushes tighten into these threads in a counter-clockwise direction. The top air vent bush and the fitting below are Left Hand threads (the female sub-thread within these bushes is standard Right-Hand thread). Never force a bush into the radiators thread, double check the bush and radiator threads for correct orientation. The bushes on the opposite end of the radiator are Right-Hand threads (so undo/tighten in the usual way).

When fitting a valve tail or air vent into the Left-Hand bush you will need to 'hold against' the bush with a suitable flat faced wrench to prevent this bush from unscrewing/loosening.

The excessive use of jointing materials when making the valve tails/vents into the bushes can sometimes crack the cast iron bush. It is recommended to use the correct amount of PTFE tape to make this joint. Other sealing compounds can be used and care should be taken to ensure they do not come into contact with the bush gaskets. Whilst you do need to firmly tighten fittings in please do NOT excessively over tighten as this could lead to failure of the component.

**Reminder on Bushes:** The male (external) large thread of each bush fitting on the air vent side of the radiator is a Left-Hand thread i.e. turns counter-clockwise to tighten. The internal sub-threads of these bushes are standard Right-Hand thread so screw the valve tail and air vent into these bushes in the usual way (clockwise). The radiator section and bush threads at the opposite end of the radiator are both Right Hand threads.

**Valves:** For trouble free operation always fit your TRV (Thermostatic Radiator Valve) onto the heating flow pipe work. Failure to fit the TRV on the heating flow will cause unsatisfactory operation and could result in excessively noisy operation (water hammer).

**Balancing the System:** Your heating engineer will be familiar with the requirement to balance the radiators when they commission the system. Getting this right is important to the operational performance of your radiators. What is trying to be achieved is that each radiator has a sufficient share of the available heated water. This is achieved through adjusting the lock-shield valves on the radiators (turning down the lock-shield valves on radiators that are closest to the pump and opening the lock-shield valves further from the pump). In this way you 'share' the available heat evenly around the system. Do this with the TRV/wheel-head valves fully open and then use the TRV/wheel-head for local room control of the temperature.

### **Wall Stay Installation**

Wall stays are typically clamped between the rear columns of the radiator and screwed securely to the wall. The threaded rod should then be cut to length to suit final positioning (Fig. 2).

For further information, contact us on  
**01205 280354**

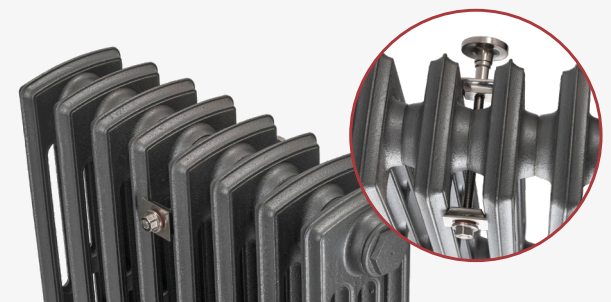


Fig.2