

# GENERAL INSTALLATION INSTRUCTIONS FOR CAST IRON RADIATORS



**Important Information:**

On delivery please check the products for any major transport damage and that all ordered contents are complete before signing POD .

Arroll radiators should only be fitted by a qualified installer.

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**Arroll**<sup>®</sup>

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## GENERAL INSTALLATION

Thank you for purchasing an Arroll radiator.

The model supplied may vary slightly from the images shown, but for any further questions then please call **+44 (0) 28 9036 5725** or visit **[www.arroll.co.uk](http://www.arroll.co.uk)**.

We recommend that all products are purchased through a recognised Arroll stockist. A list of stockists can be found on our website **[www.arroll.co.uk](http://www.arroll.co.uk)**. They should always be installed by an experienced installer who is a member of a recognised plumbing association.

During Installation extra care must be taken to avoid damaging the fitting or its finish. To maintain the appearance of the fitting, please ensure that it is cleaned regularly using a clean soft damp cloth only. Abrasive cleaners or detergents must not be used as they may cause surface deterioration. We provide a ten year guarantee against faulty workmanship or materials (excluding paint finish and serviceable parts), providing they have been installed, cared for and used in accordance with our instructions.

For full warranty information please visit **[www.arroll.co.uk](http://www.arroll.co.uk)**.

## GENERAL MAINTENANCE AND HANDLING GUIDELINES

Delivery of your radiators is Kerbside delivery via contracted hauliers. The company is only required to deliver to the safest and most convenient accessible point they are not contracted to carry into a property or unload the pallet contents. Cast iron radiators ARE VERY HEAVY so please ensure you have sufficient help to unload your order when it is delivered to you. It is important that the full length of the radiator is supported and the product is carried upright at all times.



A common cause of leakage is due to strain on the gasket seals caused by carrying the radiator flat without supporting the middle sections or dragging the radiator. The longer the radiator the greater the strain imposed on the water tight seals.

Two short pieces of wood 20mm x 50mm x 250mm make good handles when inserted between the last 2 sections at either end.

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Cast iron radiators are for use on closed heating systems only, they are not suitable for installation 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. Arroll recommends the use of Fernox F5 for power flushing and F3 rust inhibitor unlike other chemicals these products are not acid based and should not affect seals. After treatments the water should be checked for a neutral PH between 7 – 8. Following this procedure the system must be closed with a good eminence water treatment to prevent corrosion. System design, flushing and dosing must be in accordance with BS 5449, 1990, BS EN 12828:2003 and BS 7593.



**We strongly discourage the use of a water softener on the heating system as this treatment can cause the gaskets to deteriorate.**

It is important to note that failure to observe these requirements will render the guarantee on the products void. Corrosion inhibitor must be used in accordance with the manufacturer's instructions and recommendations and should take into account the particular metals within the system.

The most common cause of leaks is over tightening of the valve tails into the bottom bushes of the radiator. Over tightening will crack the bush. When screwing the valve tail in to the bush turn it finger tight then using a spanner turn it until there is only moderate resistance. Using a 4" (100mm) spanner it is difficult to over tighten. It is easy to over tighten and crack the bush with an 8" spanner.

A thread sealant must be applied to the radiator end caps and to the valve tail threads to get a water tight seal. LSX sealant available at all plumbers' merchants is recommended. PTFE tape is an acceptable alternative. We do not recommend the use of an 18" Stilson to tighten end caps. The torque from an 8" adjustable spanner is more than enough to create a good seal.

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# INSTRUCTIONS FOR INSTALLATION

1. Remove the product carefully from packaging, please take note that cast iron radiators are very heavy. It is strongly advisable that a minimum of two people undertake the method specified in the "General Handling" section of this booklet.
2. Position the product in the desired location.
3. Mark the wall for the location of the radiator stay bracket.
4. Remove product and drill wall.



**Prior to drilling into the wall/floor ensure that there are no hidden electrical wires, cables or water supply pipes with the aid of an electronic detector.**



5. Insert rawl plug and screw in the radiator stay. Remove the front plate and adjust the rear plate accordingly.
6. Apply a substantial amount of thread sealant (or a length of PTFE tape) to the end caps and to the radiator valve (not supplied) thread and screw into the radiator. Take care not to over-tighten the valve as this is a common cause of leaks. Over-tightening can potentially crack the connecting bushes.
7. Reposition the product and connect to the pipework. Check carefully that all fittings are fully tightened.
8. Re-attach the front plate of the radiator stay and secure by tightening the nut.
9. Fill the system with water and check carefully for leaks. It is advisable to have two people to carry out this action so that one can control the water flow and the other can check for leaks.



10. Provided no leaks are found the system should be flushed with a central heating cleanser to clean out any debris. (Arroll recommends using Fernox water treatments F3 or F5). It is vital that the water is tested to a neutral ph 7 or 8 . This process should be carried out to BS 5449, 1990, BS EN 12828:2003 and BS 7593 standards by a qualified fitter. Arroll strongly advises that water softeners should not be used in heating systems as this treatment can lead to gasket failures .

NOTE: Some base exchange softening, residues of cleaning agents and some industrial corrosion inhibitors designed only for use with ferric metals can damage seals please follow all instructions

11. Fill the system again just using hot water and gradually bring up to full heat to allow the cast to expand gradually. During this time check for leaks.
12. Provided the system is deemed watertight add a central heating protector and allow the system to continue to run and once at full temperature release any trapped air using the bleed valve.

Arroll radiators that have been painted will arrive with a touch up paint pot to cover up any miscellaneous damage that might have occurred during installation and delivery. Please follow paint safety sheet provided on request.



**PLEASE NOTE: The cast iron radiator products can be extremely heavy, it is advisable to use two people when lifting/moving the product. IT IS ESSENTIAL THAT THE RADIATOR STAY BRACKET IS USED TO SECURE THE PRODUCT TO THE WALL.**