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Balancing a System

To get equal flow rates through each Stelrad Radiator the system must be correctly balanced. This will ensure that all of your Stelrad Radiators are hot and keep your household warm.

To balance your system, you will need the following tools:
- Radiator bleed key
- Lockshield valve adjuster/adjustable spanner
- Screwdriver
- Digital thermometer/multimeter with a thermometer function

Step 1
Ensure all of your Stelrad Radiators have been bled (if you are unsure how to do this, please see the Stelrad how to bleed a Radiator guide on the Stelrad Youtube page).

Step 2
Turn off your central heating and allow all Stelrad Radiators to cool.

Step 3
Familiarise yourself with the valves on your Stelrad Radiator (TRV/Lockshield)

Step 4
Open up all the valves on your Stelrad Radiators by turning them anti-clockwise. If you have a lockshield valve on your Stelrad Radiator, you will need a spanner to open this up.

Step 5
Turn your heating back on, noting down the order in which your Stelrad Radiators heat up (those nearest to the boiler usually heat up first).

Step 6
Once all Stelrad Radiators are warm, turn your heating system back off and wait for the Stelrad Radiators to cool down again.

Step 7
When the Stelrad Radiators are cool, turn your heating system back on and go to the first Stelrad Radiator on your list (the first Radiator to heat up). Turn the lockshield valve clockwise until it is closed, and then open it up, a quarter of a turn. Once the Radiator has warmed up, take a temperature reading at the pipework leading to one of the valves.

Step 8

Next, take a temperature reading at the pipework leading to the other valve and open the lockshield valve gradually until there's a 12°C difference between the temperature showing now and the reading you took in *step 7* (you allow a couple of minutes after each adjustment for the temperature to change).

Step 9
Using the list created in *step 5*, go to each of your Stelrad Radiators following the same process in *step 7 – 8*.