

76076 THORNCROFT REGULATOR CLOCK

Please read these instructions carefully and keep in a safe place for future reference.

Your Radio Controlled clock is fitted with an Automatic Westminster chime movement - no need to set up the chiming sequence, simply insert the batteries!!! It has an Automatic night silence function, which silences the chimes between 10pm and 5am (Last strike 9pm, first strike 6am). It is also fitted with separate 'Pendulum' movement.

Unpacking and Setting Instructions

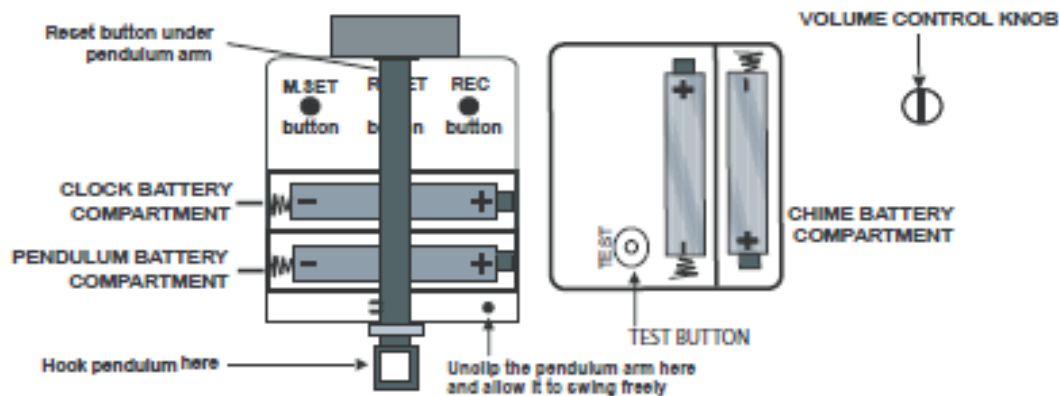
When unpacking please take care not to discard any parts with the packaging. Before setting the clock check that you have the following part:

1 x Pendulum



You will need 4XAA batteries (not included).

1. Open the 'Backboard'. To do this - slide the 'Backboard' up.
 2. Insert 2 X AA batteries into the 'Chime Battery Compartment'.
 3. Now insert 1 X AA battery into the 'Clock Battery Compartment'.
 4. After a few moments the hands on your clock will automatically move to 12 o'clock position (clock is in receiving mode).
 5. The clock will receive the time signal and set itself to the correct time.
- Note.** Be patient this can take a while. It is recommended that you leave the clock overnight for searching the time signal since the night time allows better transmission of MSF signal reception.



6. Now insert 1 XAA battery into the 'Pendulum Battery Compartment'.

Note. The clock will automatically switch to the correct time when the time signal is received. The chime movement will then adjust automatically to the correct chime sequence when the minute hand reaches the 12 o'clock position. The chime will also automatically adjust itself when clock is manually set. If the chime does not sound please see 'Trouble shooting guide'.

When the clock receives the signal, to maintain accuracy it will search for the time signal every second hour starting at 1 o'clock, 3 o'clock, 5 o'clock...

Note. In Normal Status - If the clock does not receive the MSF Signal during initial set-up or at the change of Summer/Winter time you can:

1. Manual Set

- Push and hold the M-SET button and after a few seconds the hands on the clock will start to turn.
- Keep the button pressed until the correct time is displayed then release the button.
- The clock will now work as a quartz clock until it receives the signal from the transmitter.

2. RESET button - Push & hold for 3 seconds, the clock will reset, after a few moments the hands will move to the 12 o'clock position & start the signal receiving mode again.

3. REC button - Push & hold for 3 seconds the hands will move to the 12 o'clock position and start the receiving mode. The clock will receive the MSF signal and automatically set to the correct time.

Note: If the reception fails, the hands will move to the last time shown on the clock.

VOLUME CONTROL KNOB - Turn it to the right to increase the chime volume or to the left to decrease the volume.

WHEN HANGING THE CLOCK PLEASE NOTE THE FOLLOWING

Caution - Before drilling any holes in walls or other surfaces, check the location of any piping or electrical cabling

- Ensure you check the wall and hanging hook are appropriate for the weight of the product.
- We recommend two people to install heavy or larger items.
- If in doubt consult a professional trades person.

RADIO CONTROLLED TECHNOLOGY EXPLAINED

The radio controlled mechanism fitted to your clock has a built in receiver which is tuned to the National Physical Laboratory (NPL) radio signal, called MSF, which is transmitted from the Antrim radio station in Cumbria. The MSF signal is broadcast on a frequency of 60kHz and carries a time and date code that radio controlled clocks use to set themselves to the correct time. The time signal received is controlled by cesium atomic clocks and is accurate to within one second every 1000 years.

TROUBLE SHOOTING GUIDE

Interruption to the MSF signal

The Antrim transmitter is periodically shut down for scheduled maintenance resulting in no signal being transmitted.

For dates of the schedule maintenance visit <http://www.npl.co.uk/science-technology/time-frequency/time/products-and-services/msf-outages> or call the NPL MSF recorded message on (0)20 8943 6493.

MSF reception difficulties

Like any receiver your clock needs a good signal to work properly. The main causes of reception failure are...

- Atmospheric and local interferences.
- Interference from electrical equipment e.g. T.V, computers or radios within 2 meters of the clock.
- Location of the clock's internal receiver within the building.
- Reduced local signal due to steel framed structure. Reduced signal due to interference problems in your house or building.
- Outside the normal transmission radius.

Problem - The clock will not receive Radio Controlled signal and will not set to the correct time.

Solution - Check the batteries are new and in good condition.

- Check that the batteries are inserted correctly.
- Try rotating the clock as the internal receiver that picks up the signal is most effective when it is facing directly towards or away from Antrim.
- Try moving your clock to a new location away from any electrical equipment, e.g. T.V, computers or radios.
- Remove the batteries and insert the batteries again after 5.30pm. Due to local interference the signal is stronger between midnight and 5am.
- Manual set (see page 1).

Problem - Your clock chimes incorrectly.

Solution - Change the batteries and reset your clock following the instructions on page 1.

Problem - Your clock will not chime.

Solution - Change the batteries and reset your clock following the instructions on page 1.

Problem - The clock loses time.

Solution - Insert a new battery and reset the clock following the instructions on page 1.

Problem - What do I need to do when the clocks change for Summer/Winter time?

Solution - Nothing!

- The clock will automatically switch to the correct time when the time signal is received. The chime movement will then adjust automatically to the correct chime sequence when the minute hand reaches at 12 o'clock position.

Problem - Your clock pendulum will not swing or stops swinging.

Solution - Check that the clock is vertical and flat against the wall. Replace the batteries.

CHANGING THE BATTERIES

It is recommended that you replace the batteries annually even if the product is still running. Only use 4 XAA (1.5V) Alkaline batteries in this clock. Do not mix old and new batteries, different types or brands. Remove the batteries if the clock is stored or not in use. Remove exhausted batteries from the product. Warning: Do not recharge non-rechargeable batteries.

Please dispose of used batteries in a responsible manner. For more information please contact your local authority.

MAINTENANCE

A soft cloth may be used to clean your clock. Do not use any corrosive cleaner or chemical solutions on the clock. Keep the clock clean and dry to avoid any problems.

YOUR GUARANTEE

Your clock is guaranteed for 12 months from the date of purchase against any faults arising from defective materials or manufacture. Damage caused through careless handling, misuse or in transit is expressly excluded. Should this clock fail within 12 months please return it in the first instance to your retailer.

If you have any queries, problems or do not understand any part of these instructions please contact:

Customer Help Line (01908) 449208 or Local 0845 1207208 Mon - Fri 9am-4.30pm

email for service: service@accclm.com or visit www.accclm.com

Environmental Protection



Disposal of electrical & electronic equipment.

Do not dispose of this product with household waste. For the proper treatment, recovery and recycling please take this product to the appropriate collection point. If you are unsure of where this is contact your local authority. Improper disposal may be harmful to the environment.

