MAKING MODERN LIVING POSSIBLE

TS715Si

Electronic Single Channel Timeswitch with Service Interval Timer

User Guide

Danfoss Heating

TS715Si

Electronic Single Channel Timeswitch with Service Interval Timer

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For a large print version of these instructions please call Marketing on 0845 121 7400.

energy saving recommended

Certification Mark

This product complies with the following EC Directives:
Electro-Magnetic Compatibility Directive.
(EMC) (2004/108/EC)
Low Voltage Directive.
(LVD) (2006/95/EC)

CE

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Thank you for buying a Danfoss product

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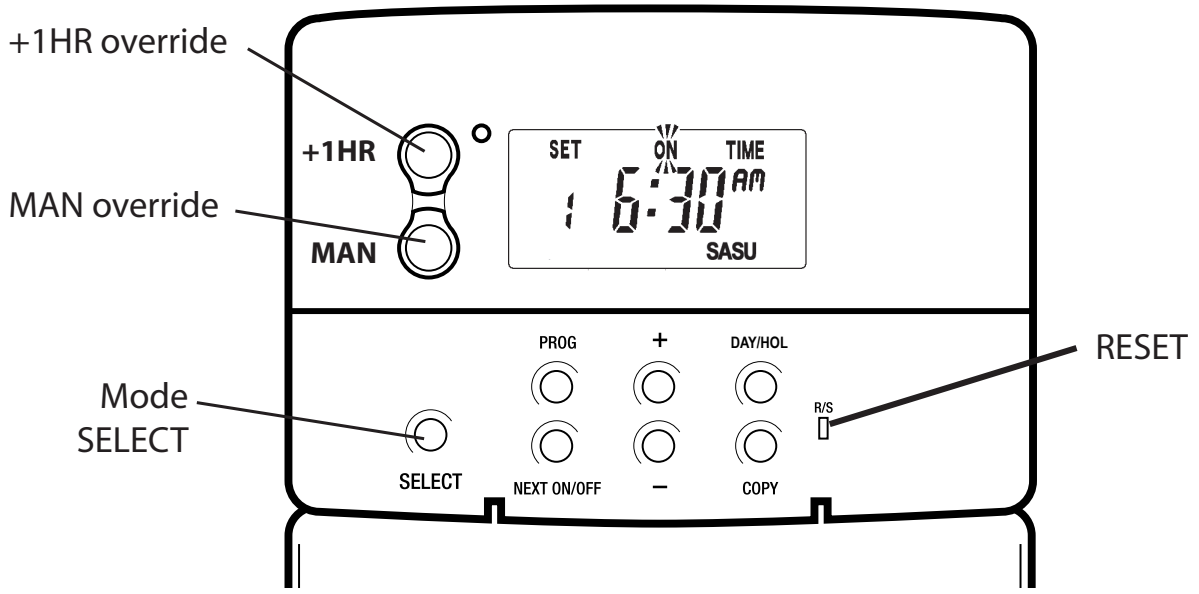

TACMA
THE ASSOCIATION OF CONTROLS MANUFACTURERS

The text below has been edited and approved by the Plain English Campaign, who has issued a Crystal Mark to be displayed with it.

What is a Programmer?

... an explanation for householders.
Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.
Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.
The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.
You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.
The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.

Please note: A timeswitch is a single channel programmer. It will allow you to set your system's On and Off periods.

1.0 User Instructions
1.1 Your Timeswitch

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The TS715 Si allows you to switch your system on and off at times that suit you.

You can programme up to 3 separate ON/OFF times per day.

1.2 Preset Programmes

Your TS715 Si comes ready programmed with a set of operating times which often suit most people.

Event No.	Hot Water and Heating	Mon-Fri	Sat-Sun**
1	1st ON	6:30	7:30
2	1st OFF	8:30	10:00
3*	2nd ON*	12:00*	12:00*
4*	2nd OFF*	12:00*	12:00*
5	3rd ON	17:00	17:00
6	3rd OFF	22:30	22:30

* Not applicable if unit set to 2 ON/OFFs per day by installer

**Not applicable if unit set to 24 hour mode by installer

See page 9 for explanations of different settings

If you want to change any of these settings, you can do so by following the instructions on pages 9-14. First, follow the steps on page 7-8 to set the correct time and date.

1.3 Before you start

Open the flap on the front of the clock. Press the **RESET** button using a non-metallic object (e.g. pencil/matchstick) until you hear a click and the red light on the front of the unit comes on and the LCD goes blank.

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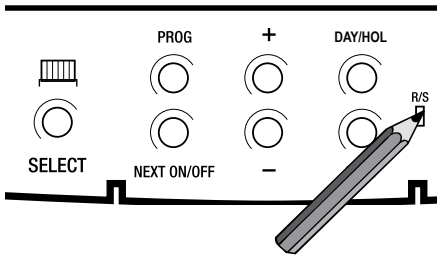
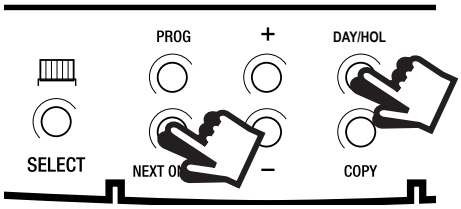
This will reinstate the preset programmes and sets correct day and time.

To fully reset the unit see page 19.



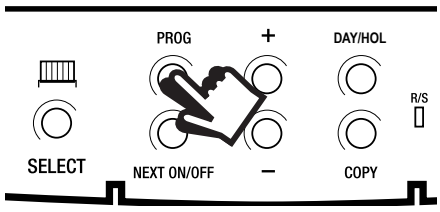
1.4 Choice of 24hr or AM/PM display

Press and hold **DAY/HOL and NEXT ON/ OFF** for 2 seconds to toggle between 24hr clock and AM/PM display, as required.



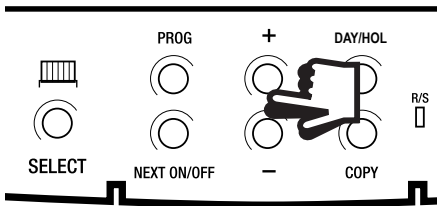
1.5 Setting the Date and Time

These settings are made during manufacture and only need to be changed in the unlikely event that the unit has lost the settings.

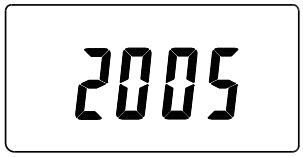


Setting the Date

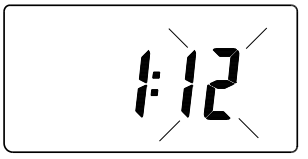
Press and hold **PROG** for 5 seconds to display year.



Use the **+** or **-** buttons to set the correct year.



Press **DAY/HOL** to display day and month. Use the **+** or **-** buttons to set the correct month (Jan = 1, Feb = 2 etc.).



Press **DAY/HOL** to display day and month. Use the **+** or **-** buttons to set day of month.

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Press **PROG** to display the time.

The words **SET TIME** will appear at the top of the display and the time will flash on and off.

Use the **+ or -** buttons to set the correct time (press and hold to change in 10 min. increments).

Setting the Day
The day of the week is set automatically.

1.6 Accepting the preset programmes

If you are happy to use the preset programmes on page 6, you don't need to do anything else.

To accept the factory presets just press the **PROG** button once until the time appears and the colon in the display begins to flash.

Your unit is now in **RUN** mode and will control your heating and hot water according to the preset programmes.

1.7 Before you change the preset programmes

Your installer will have set your unit to operate in one of the following modes:

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- **5/2 day** - one set of programmes for weekdays and another for weekends **(page 10-11)**
- **7 day** - different settings for each day of the week. **(page 11-12)**
- **24 hour** - one set of programmes for the whole week. **(page 13)**

See INSTALLER SETTING tick box on inside flap label to ascertain which mode your unit is set.

INSTALLER SETTING	
24 Hour	
5+2 Day	
7 Day	

Please Note

The unit must be programmed in sequence. ON/OFF times cannot be set out of sequence.

If you want to leave a preset time as it is, simply press **NEXT** to move on to the next setting.

Your installer will have set your unit to programme either 2 or 3 ON/OFFs per day. If your clock has been installed to allow 3 ON/OFFs and you do not wish to use one of the ON/OFF settings, simply programme the ON time to be the same as the OFF time and the setting will not operate.

1.7.1 Programming the On/Off times in 5/2 day mode

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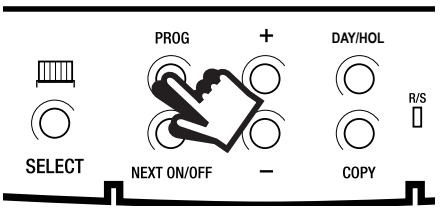
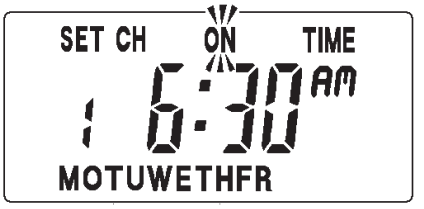
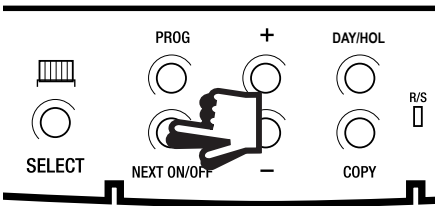
1. Press **PROG** once until **SET ON TIME** appears at the top of the display and **MOTUWETHFR** appears at the bottom of the display.



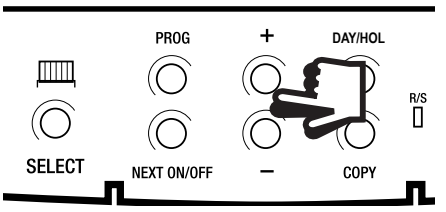
Use the **+ or -** buttons to set the time you would like your system to first come on in the morning (Event 1).



2. Press **NEXT ON/OFF** once only.



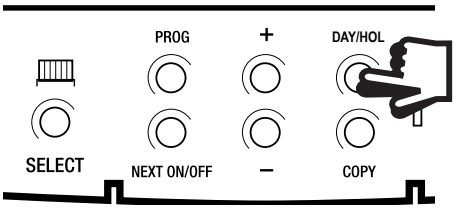
Use the **+ or -** buttons to set the time you want your system to go off (Event 2).



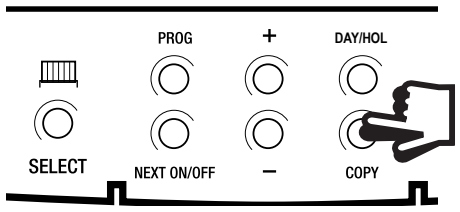
To move to the next setting, i.e. when you would like your system to come on again (Event 3) press the **NEXT ON/OFF** button again.

3. Continue programming the system **ON** and **OFF** times for weekday Events 4, 5 and 6 as in Step 2.

4. Press the **DAY/HOL** button once and **SASU** will appear at the bottom of the display.



5. To set the times required for **SA** and **SU** repeat steps 1-3 or if the same settings are required press **COPY.**



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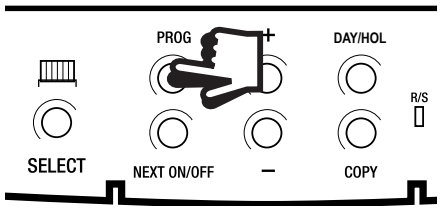
6. Press the **PROG** button once to return the unit to **RUN** mode (time appears and colon in the display begins to flash).

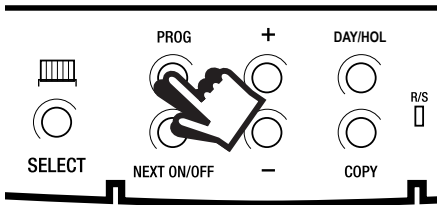


7. **Proceed to page 14.**

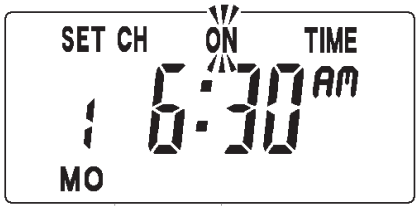
> ***Please Note***
> If this setting is made on a weekend day SASU will show in place of MOTUWETHFR.

1.7.2 Programming the On/Off times in 7 day mode

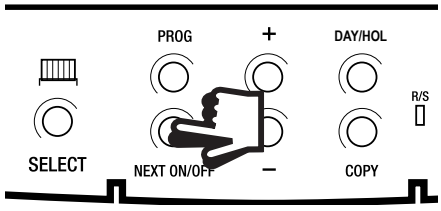
1. Press **PROG** once until **SET ON TIME** appears at the top of the display. Note the current day is displayed. Press the **DAY/HOL** button until the required day is displayed.



2. Use the + or - buttons to set the time you want your system to first come on in the morning (Event 1).



3. Press **NEXT ON/OFF** to move to Event 2.



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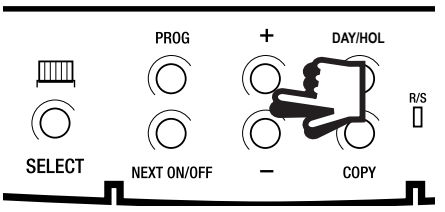
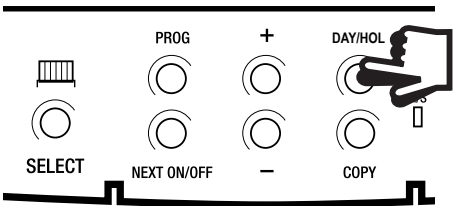
4. Continue programming the system **ON** and **OFF** times in this way by using the **+** or **-** buttons to set the time you want and pressing the **NEXT ON/OFF** button to move to the next setting.



5. Press **DAY/HOL** button once only. The next day will appear at the bottom of the display.



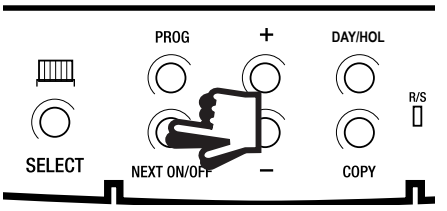
6. Continue programming the rest of the week by pressing:

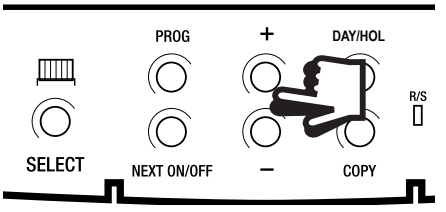
   a) **NEXT ON/OFF** button to move to the next setting,

   b) **+ or -** buttons to amend the time,

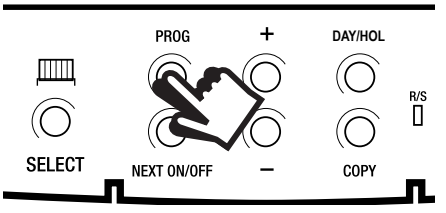
   c) **DAY/HOL** to advance to the next day.

   d) To copy the previous day press the **COPY** button.





7. Press the **PROG** button to return the unit to **RUN** mode (time appears and the colon in the display begins to flash).



8. **Proceed to page 14.**

1.7.3 Programming the On/Off times in 24 hour mode

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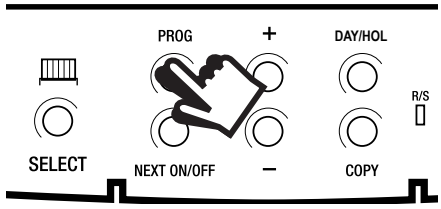
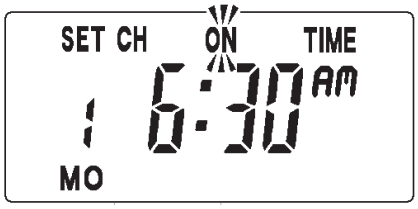
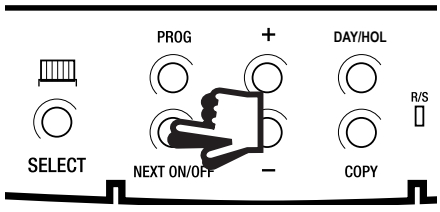
1. Press **PROG** once until **SET ON TIME** appears at the top of the display.



Use the **+ or -** buttons to set the time you want your system to first come on in the morning (Event 1).



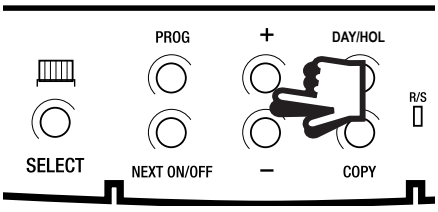
2. Press **NEXT ON/OFF** to move to Event 2.



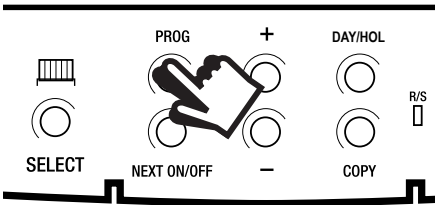
Continue programming the system **ON** and **OFF** times by pressing:

a) **NEXT ON/OFF** button to move to the next setting,

b) **+ or -** buttons to amend the time.



3. Press the **PROG** button to return the unit to **RUN** mode (time appears and the colon in the display begins to flash).



4. **Proceed to page 14.**

1.8 Running Your Programme

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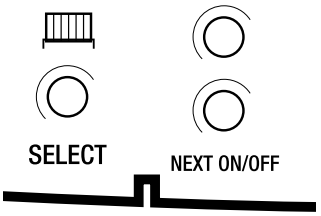
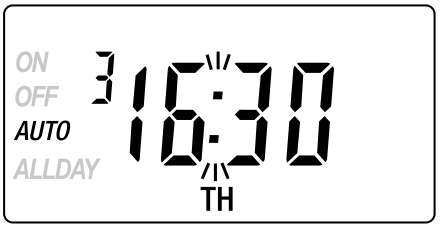


To run the programme:
press the **SELECT** button.

Each time you press the **SELECT** button the display will change between **ON, OFF, ALLDAY** and **AUTO**.



- **AUTO** = the system will come on and go off at the programmed times.
- **ON** = the system will remain on constantly.
- **OFF** = the system will not come on.
- **ALLDAY** = the clock will turn the system on at the first programmed ON and will leave it on until your last programmed OFF.

Select the option you require depending on your circumstances, time of year, etc.

2.0 Advanced Settings
2.1 Temporary Override Buttons

Sometimes you may need to change the way you use your heating temporarily, i.e. due to unusually cold weather. The TS715 Si has two convenient overrides which can be selected without affecting the set programme.

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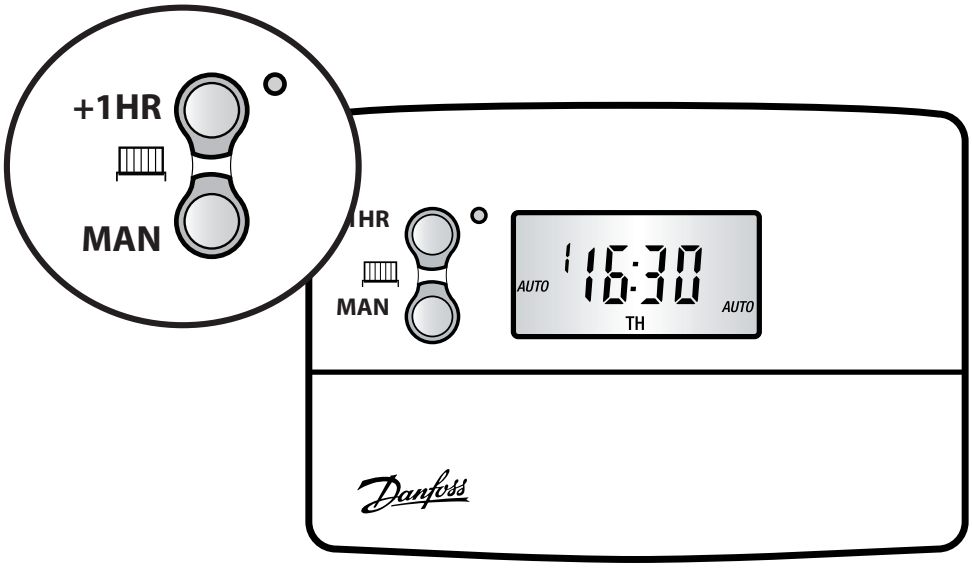

+1HR Pressing this button when the unit is in **AUTO** or **ALLDAY** mode will cause the system to remain on for an extra hour. If it is pressed while the programme is **OFF** the system will come on immediately for 1 hour then go off again. **+1HR** will be shown in the display.

MAN Pressing this button when the unit is in **AUTO** or **ALLDAY** mode will cause the system to go **OFF** until the next programmed **ON**, or vice versa. **MAN** will be shown in the display.

2.2 Holiday Programme

To automatically bring the heating back on when returning from holiday the TS715-Si has a built in holiday feature.

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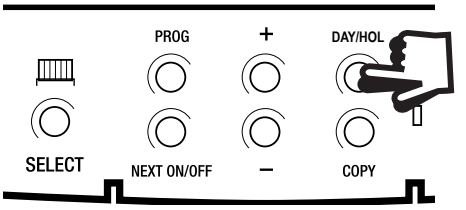
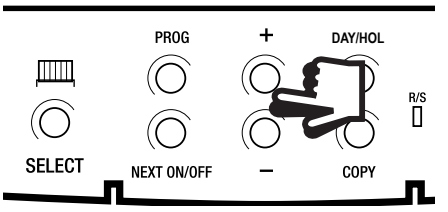
Follow the steps below to set the date that the system needs to come back on.

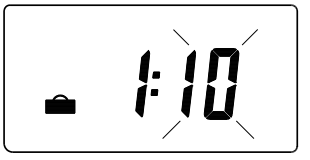
1. Press **DAY/HOL**



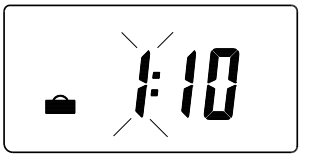
2. Use the **+ or -** buttons to select the year.



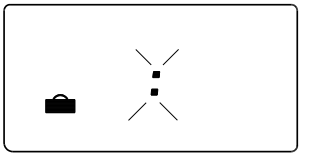
3. Press **DAY/HOL**, then use the **+** and **-** buttons to select the month.



4. Press **DAY/HOL** again, then use the **+** and **-** buttons to select the day in month.



5. Press **DAY/HOL** to turn heating off and enter holiday mode.



To cancel holiday mode press **DAY/HOL**.

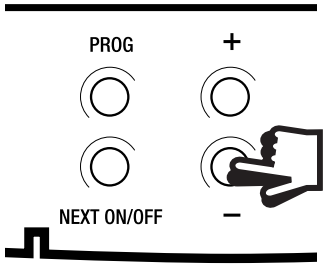
2.3 Changing Clocks Forward and Backward

This is handled automatically. Should the installer have turned off Automatic Time Change then follow the instructions below.

Open the flap on the front of the unit to reveal the programming buttons.

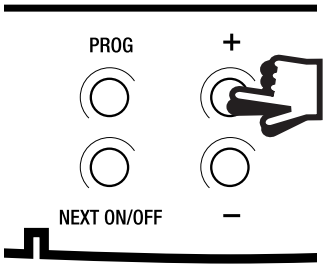
To change from **Summer to Winter** (clocks back) -

- **press and hold - button**



To change from **Winter to Summer** (clocks forward) -

- **press and hold + button**



Take care when making this change for the first time. If it is made in the wrong direction the unit will have to be reset and any user-settings re-entered.

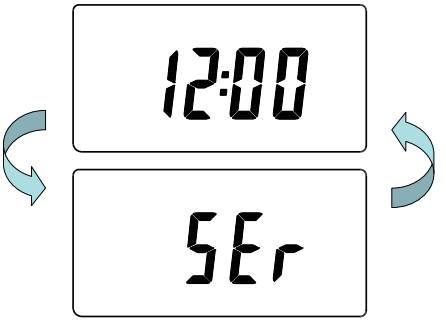
(See pages 7-8 on how to reset the unit and how to set the date, time and day).

2.4 Service Interval Timer

GB

- If the property is owned by a landlord he may, for gas safety reasons, have instructed the installer to set the service interval timer.

- If set, 28 days prior to the boiler service due date, a momentary visual and audible warning will remind you to have the boiler serviced in the next 28 days. This will be repeated each day at noon.



- If the boiler is not serviced within 28 days the daily audible warning will sound for 1 minute at the beginning of each hour and must be cancelled each day by pressing any button on the unit.

- In addition, all overrides and programming buttons will be disabled and the heating and hot water will operate for a set portion of each programmed hour.

- The installer will cancel or reset the service interval timer as part of the boiler service.

- This is a gas safety feature that can only be accessed by an installer.

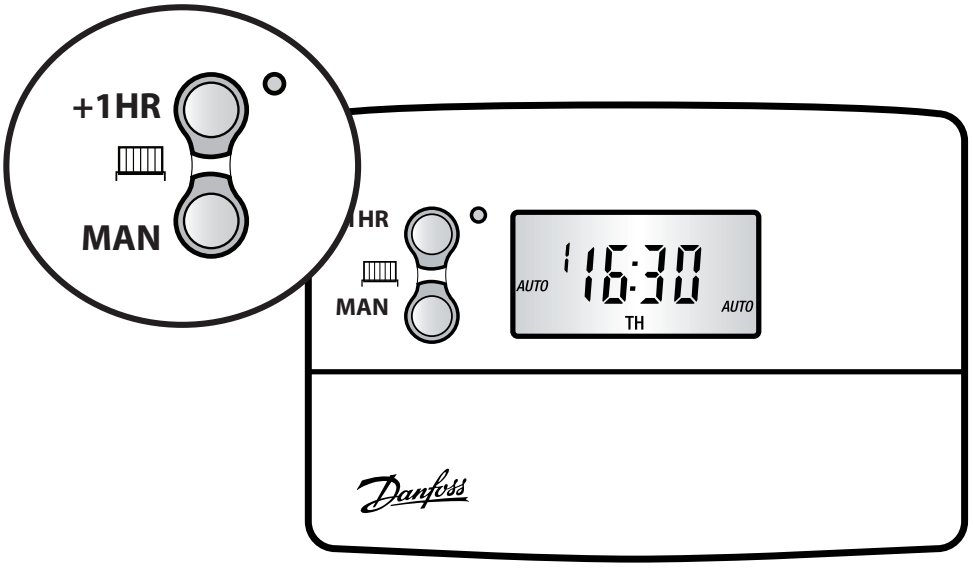
- When the service interval timer is set the service due date can be viewed in **RUN** mode by pressing and holding the **COPY** button.

2.5 Making a Full Reset

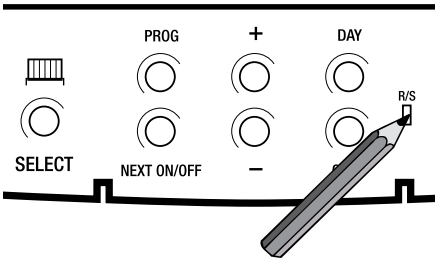
If it is necessary to fully reset the unit, excluding the date and time, follow the instructions below.

GB

1. Press and hold the **+1HR** and **MAN** buttons on the left hand side of the product.



2. Press the **RESET** button and hold for 3 seconds.



3. Release the **RESET** button. The display will change to show **the current time**.

Example

4. Finally, release both the **+1HR** and **MAN** buttons.

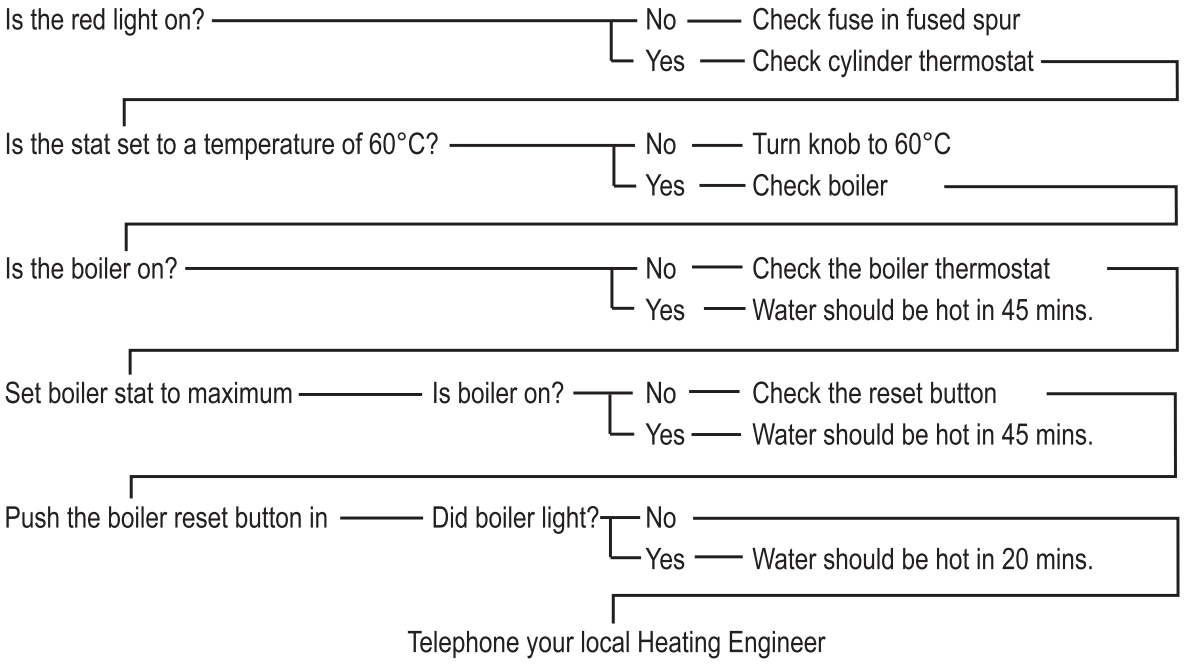
The unit is now fully reset and must be re-programmed, see pages 10-14.

2.6 Fault Check List

GB

No Hot Water

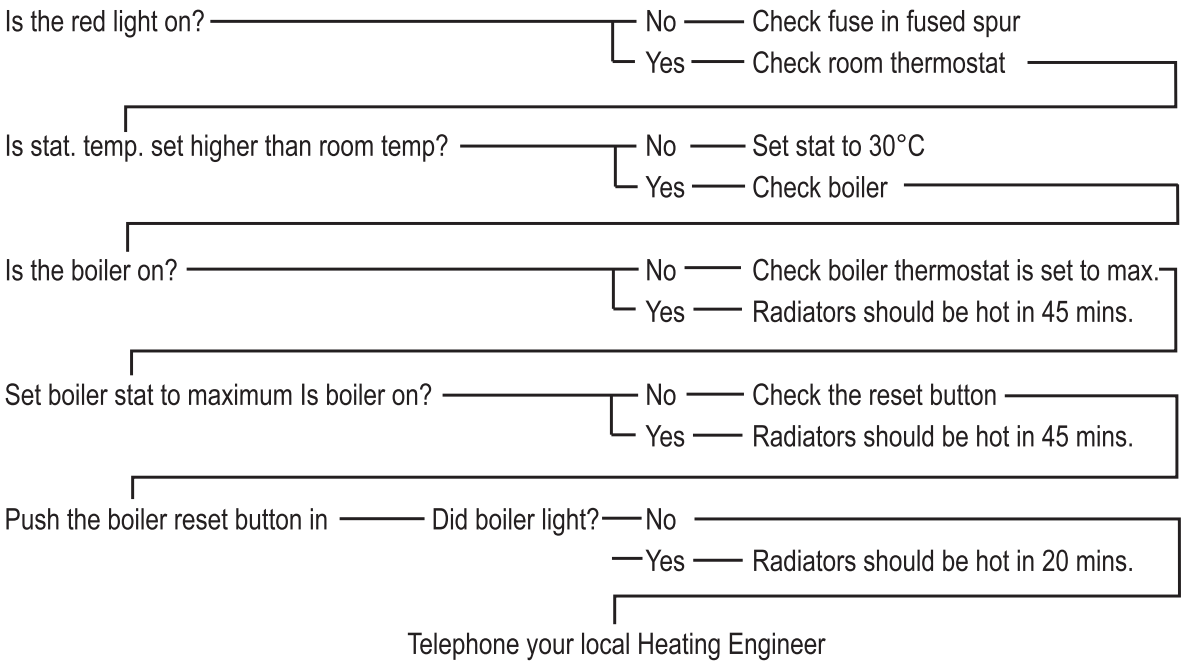
Check TS715 programmer. Make sure selector is set to ON.



After the water has been heated, return the programmer and other controls to the required settings.

No Heating

Check TS715 programmer. Make sure selector is set to ON.



After the heating has come back on, return the programmer and other controls to the required settings.

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