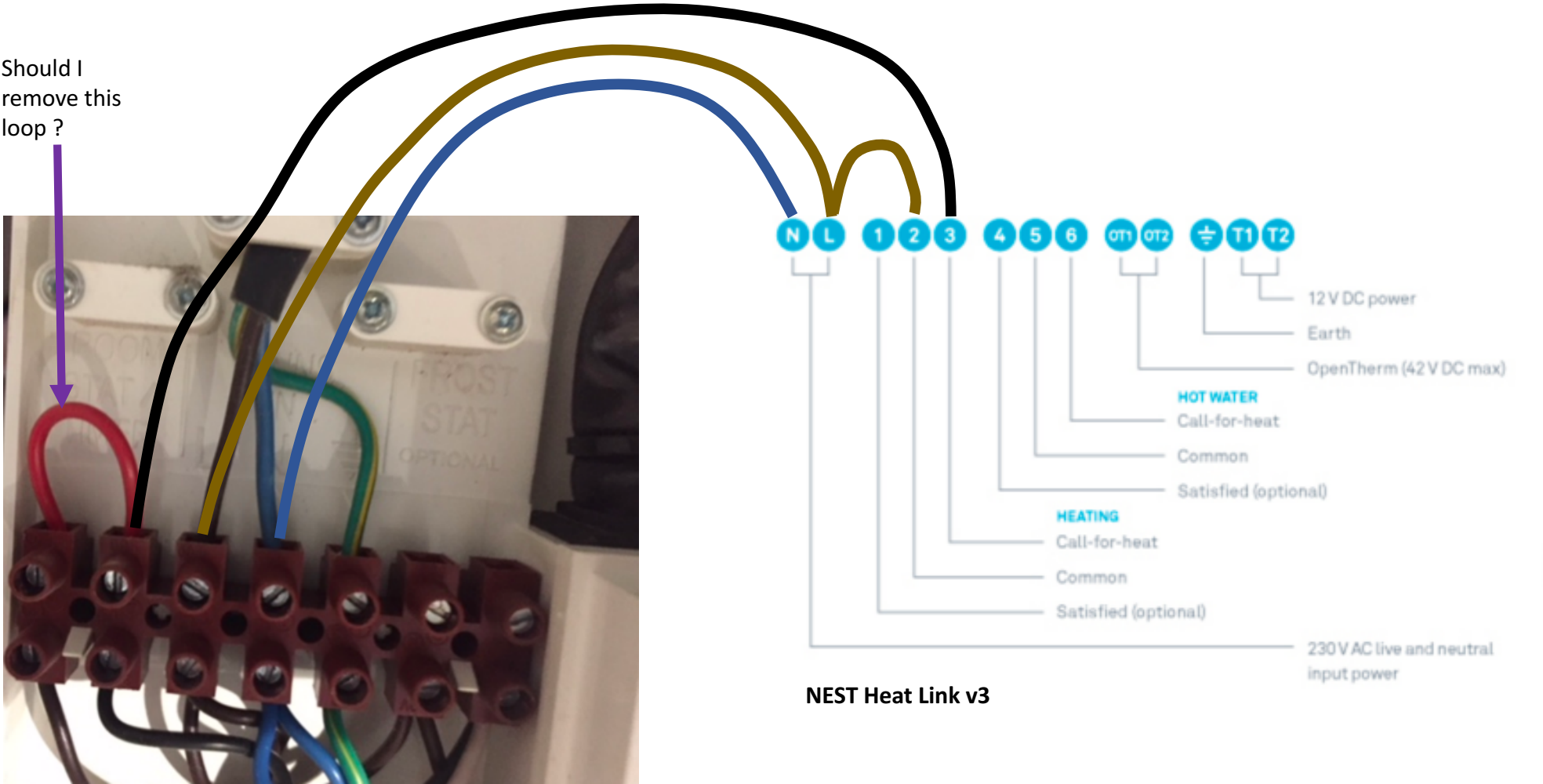


Pic 1 - RF Mechanical programmable Room Thermostat



Pic 2 - Wiring diagram between Nest Heat link and Boiler



Boiler Type: Ideal Logic Combi 24+

Pic 3 - Wiring diagram in the boiler manual

INSTALLATION

32 INTERNAL WIRING CONT'D

Ideal offer 5 kits as follows:
(see individual kits for installation instructions)

Mechanical Timer (24 hr) Kit - 24 hour mechanical CH timer fits into the control box of the boiler. This can be fitted in conjunction with a room thermostat.

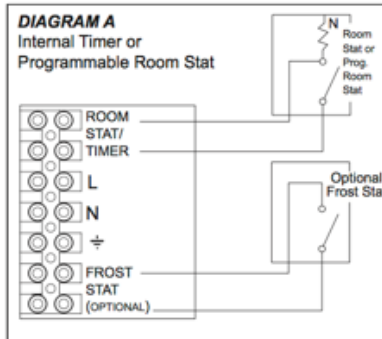
Electronic Timer (7 day) kit - 7 day electronic CH timer fits into the control box of the boiler. This can be fitted in conjunction with a room thermostat. Features English language installation help messages.

RF Mechanical Programmable Room Thermostat (24 hr) kit - Combined 24 hour mechanical timer and room thermostat with wireless communication to receiver unit which fits into control box of the boiler.

RF Electronic Programmable Room Thermostat (7 day) kit - Combined 7 day timer and room thermostat with wireless communication to receiver unit which fits into control box of the boiler. Features English language installation help messages. Also OpenTherm Control for gas consumption saving.

Weather Compensation Kit -
Allows outside temperature sensing.

DIAGRAM A
Internal Timer or
Programmable Room Stat

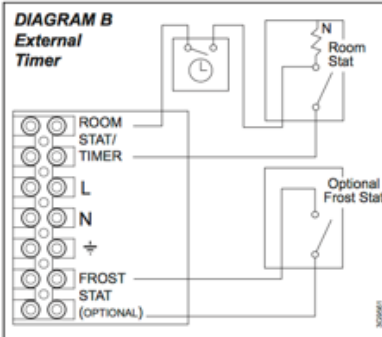


(1) ROOM THERMOSTAT WITH INTERNAL BOILER TIMER OR (2) PROGRAMMABLE ROOM THERMOSTAT

1. Remove link wire between room stat/timer terminals.
2. Connect room stat across terminals as shown in diagram A
3. If room stat has a neutral connection, connect this to terminal N (load) in the fused spur.

ROOM THERMOSTAT + TIMER

DIAGRAM B
External
Timer



1. Remove link wire between room stat/timer terminals.
2. Connect room stat and programmer in series as shown in diagram B.
3. If room stat has a neutral connection, connect this to terminal N (load) in the fused spur.

FROST THERMOSTAT

If parts of the system are vulnerable to freezing or the programmer is likely to be left off during cold weather, a frost stat should be fitted in conjunction with a pipe thermostat.

1. Position the frost thermostat in a suitable position, i.e. area vulnerable to freezing.
2. Connect frost stat across terminals marked frost stat shown in diagrams A & B.

Pic 4 - OpenTherm Temp Control

34 EXTERNAL ELECTRICAL CONTROLS

Wiring External to the Boiler

The fuse rating should be 3A.

Wiring external to the boiler MUST be in accordance with the current I.E.E. (BS.7671) Wiring Regulations and any local regulations.

Frost Protection

If parts of the pipework run outside the house or if the boiler will be left off for more than a day or so then a frost thermostat should be wired into the system.

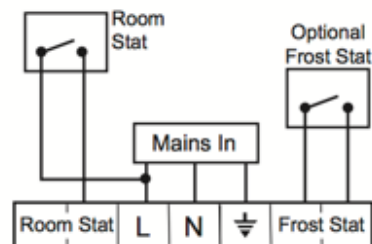
This is usually done at the programmer, in which case the programmer selector switches are set to OFF and all the other controls MUST be left in the running position.

The frost thermostat should be sited in a cold place but where it can sense heat from the system.

Note. If the boiler is installed in a garage it may be necessary to fit a pipe thermostat, preferably on the return pipework.

Earths are not shown for clarity but must never be omitted.

Use of General Live for Room Stat



3G9503

OpenTherm Programmable Room Temperature Control

Note. These terminals MUST ONLY be connected to an OpenTherm Controller. Connecting any other device / control wiring may destroy the primary PCB.

1. Isolate the mains supply to the boiler.
2. Remove the front panel. Refer to Frame 43.
3. Swing the control box down into the servicing position. Refer to Frame 49.
4. Remove the control box cover. Refer to Frame 60, no's 3 and 4.
5. Unclip the 3 way in-line connector containing 2 purple wires and 2 red wires.
6. Connect this 3 way connector to the 3 way connector containing 2 purple wires wired from the 4 way terminal block.
7. Connect the two wires from the OpenTherm Programmable Room Temperature Control to the two LH connections of the terminal block as shown.
8. Re-assemble in reverse order.

