

Service mode LED/LED+

1. To enter service mode, push 3 buttons simultaneously until binary code is visible

2. Then calculate or read in the table which error you see.

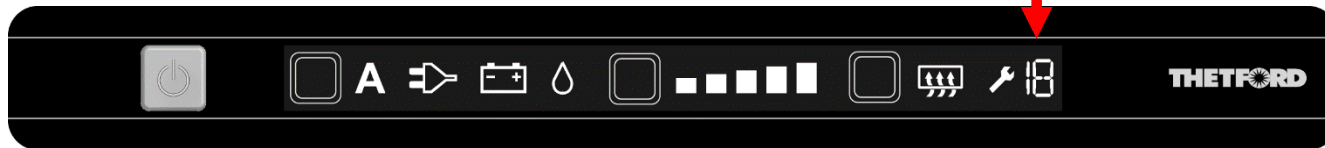


| Readout Code - LED Display | Error Code |
|-------------------------------|---------------|
| | No Error Code |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 10 |
| | 11 |
| | 12 |
| | 13 |

!!! Note : When supply voltage 12 VDC (low current voltage) is not available, no error code will be given. When 12 VDC is available the green power LED will be on. If battery pack is empty you can see a red light !!!

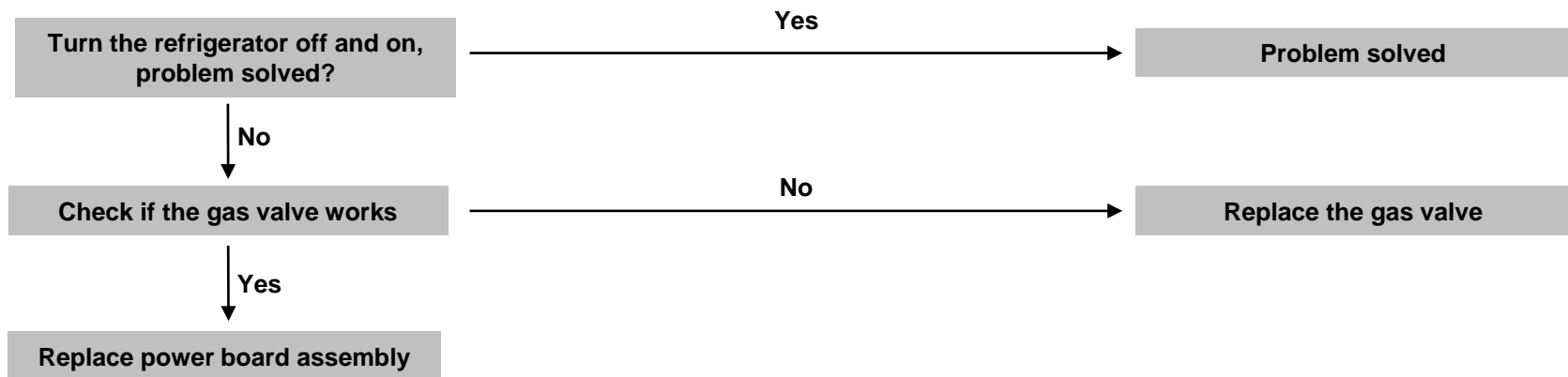
Service mode LCD

The error code will appear in the display over here.

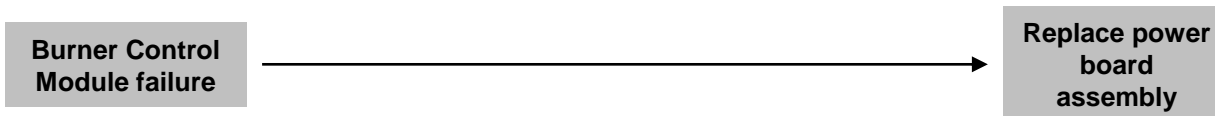


!!! Note : When supply voltage 12 VDC (low current voltage) is not available, no error code will be given. When 12VDC is available the green power LED will be on !!!

Error code 1: Senses flame when gas should be off

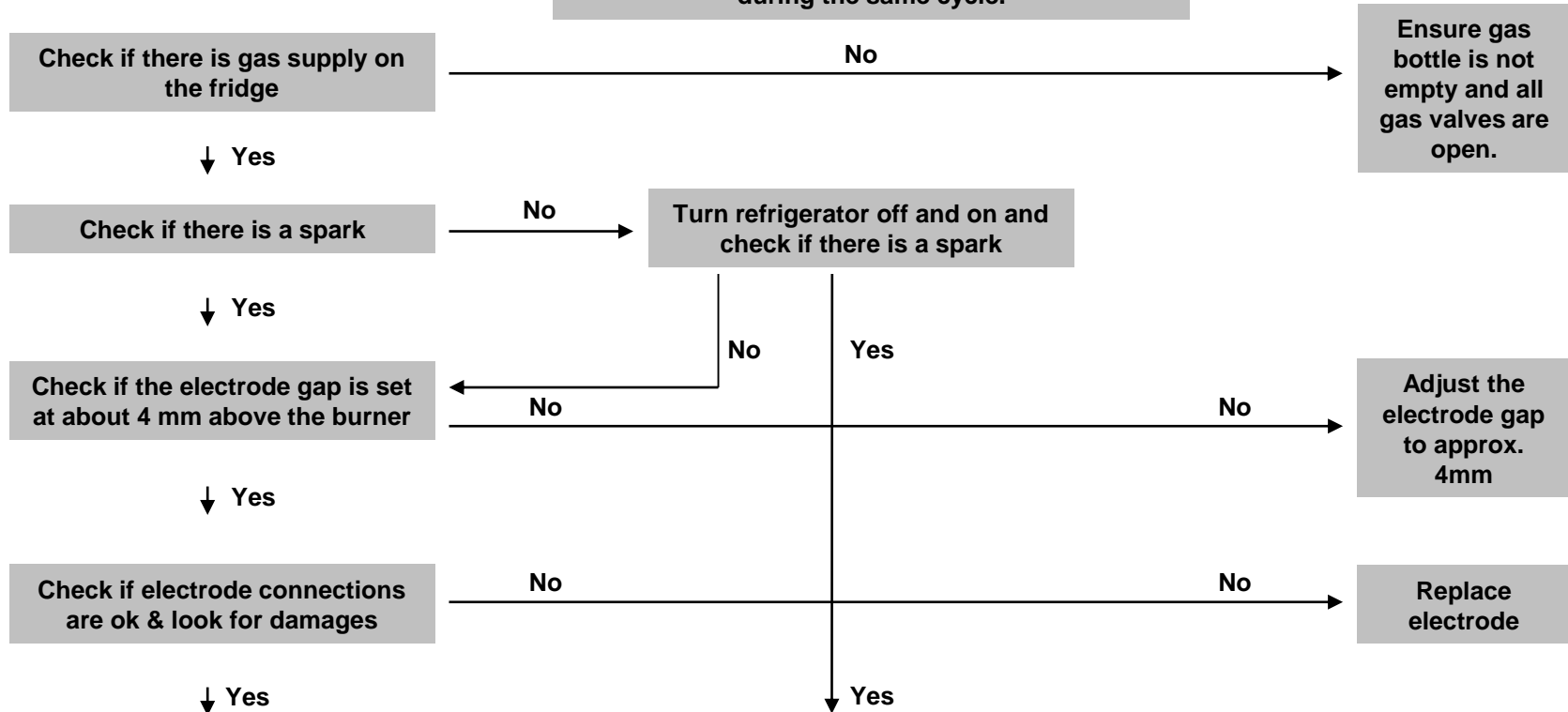


Error code 2: Burner control module returns incorrect feedback.

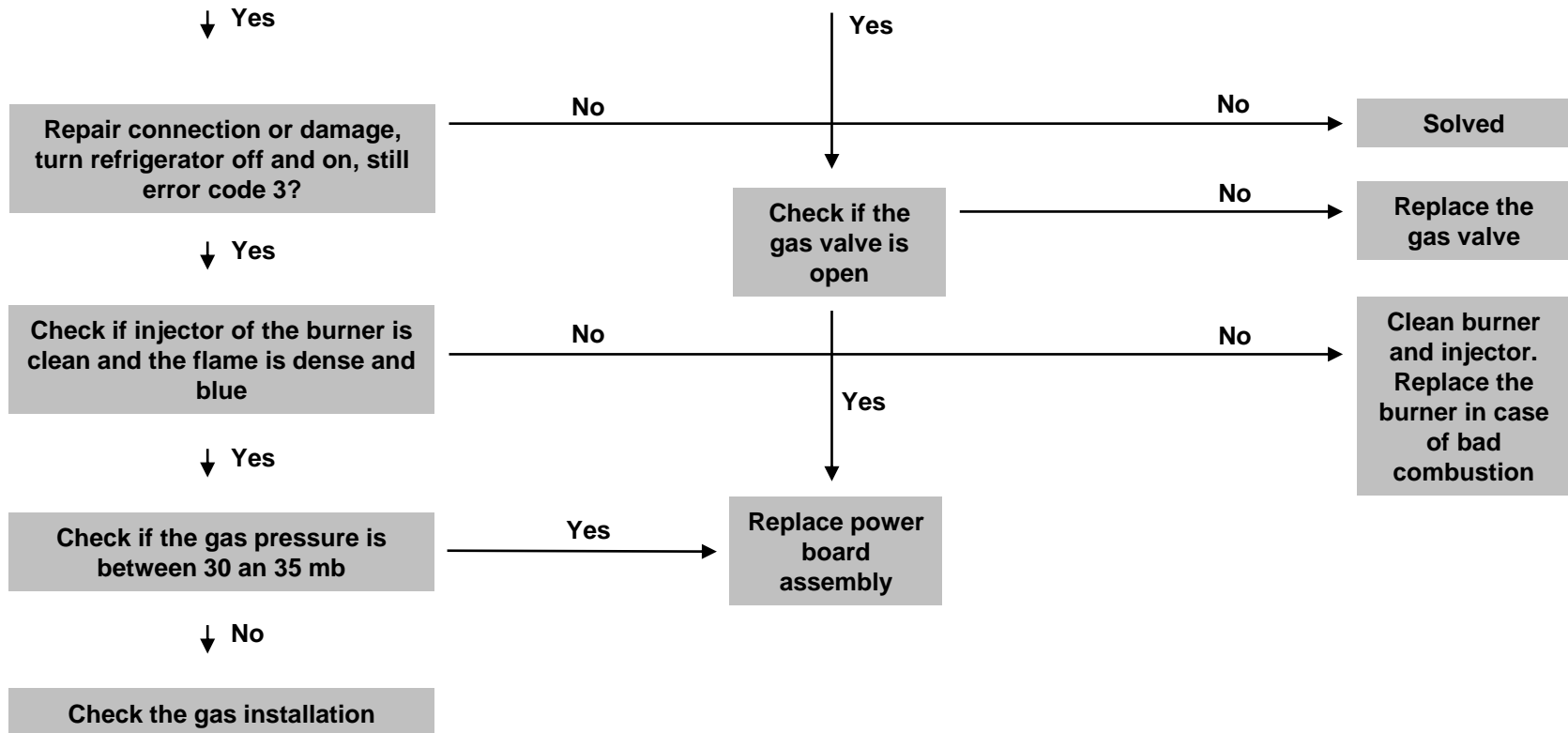


Error code 3: Gas lockout because flame fails to ignite within 30 sec.

Note: comparing with the N3000 series the N3140 series try to ignite 3 times when there is no flame detection any more, after it was detected before during the same cycle.

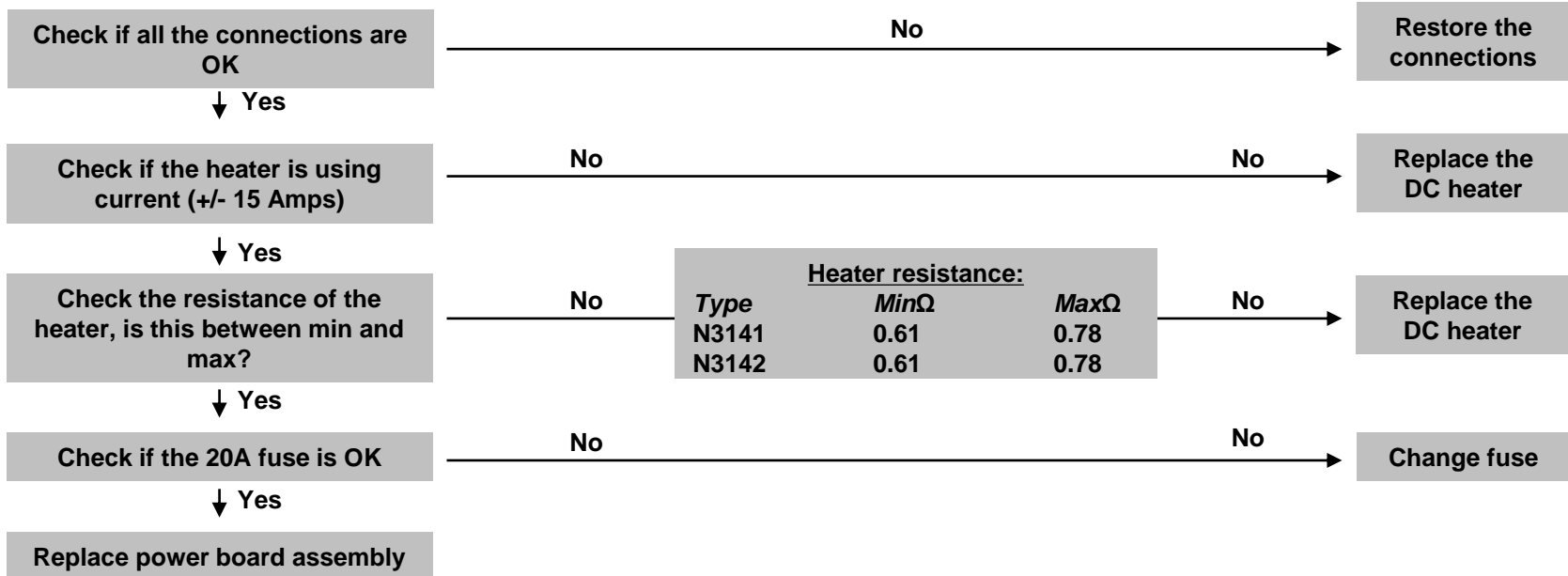


Error code 3: Gas lockout because flame fails to ignite within 30 sec.

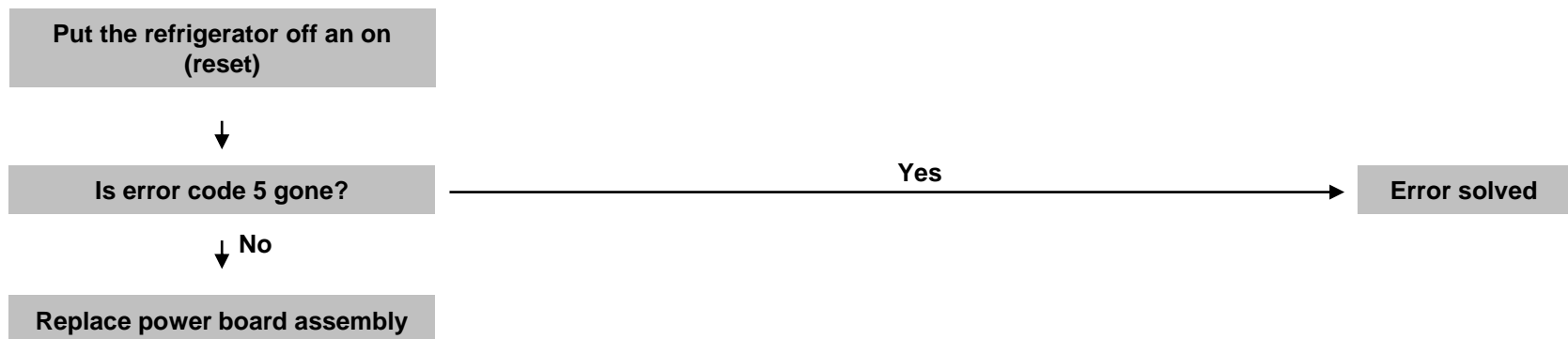


Error code 4: DC heater is off when it should be on

!!! Note: put fridge off when measuring the impedance off the heater !!!

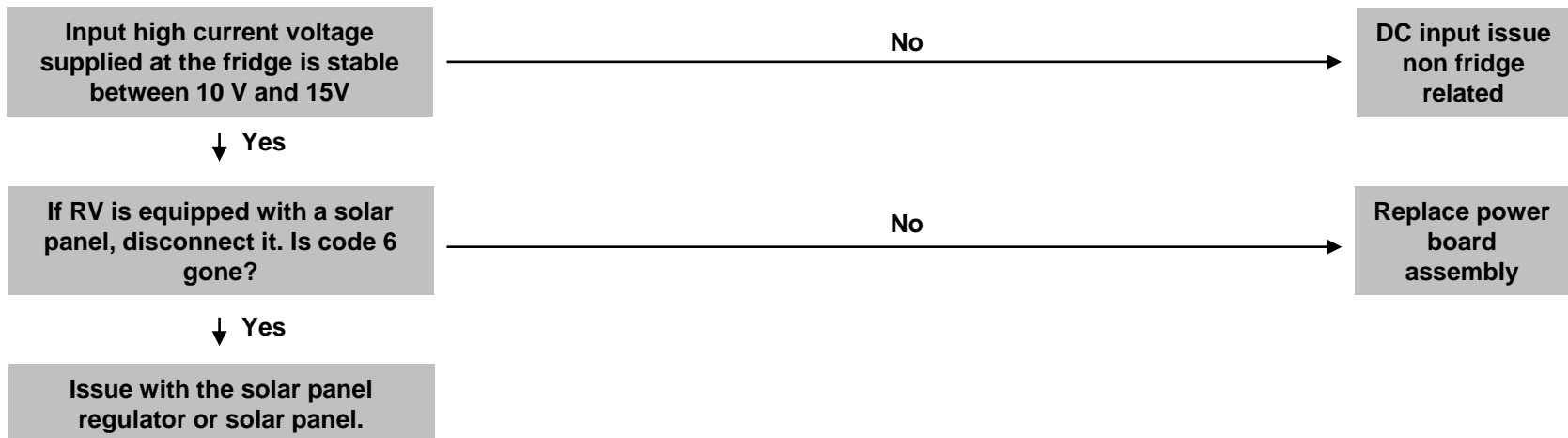


Error code 5: DC heater is ON when it should be OFF.



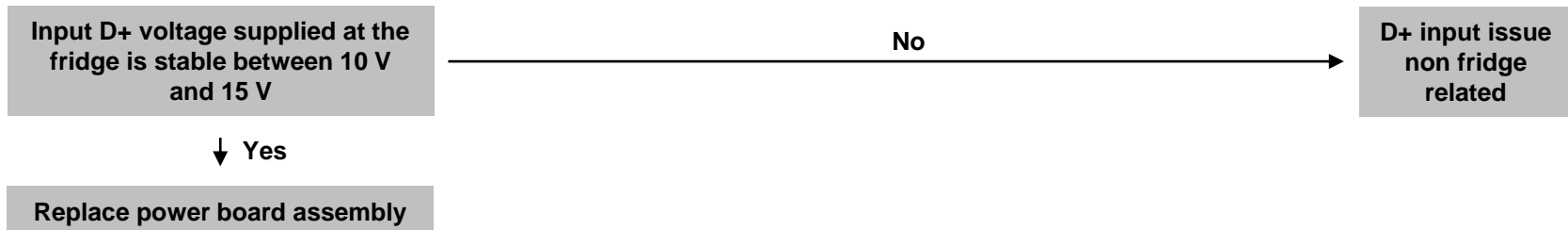
Error code 6: DC high voltage is out of range (lower than 10 V or higher than 15 V)

!!! If DC mode has been selected manually, the refrigerator is not switching automatically to another source of energy when the engine is off !!!



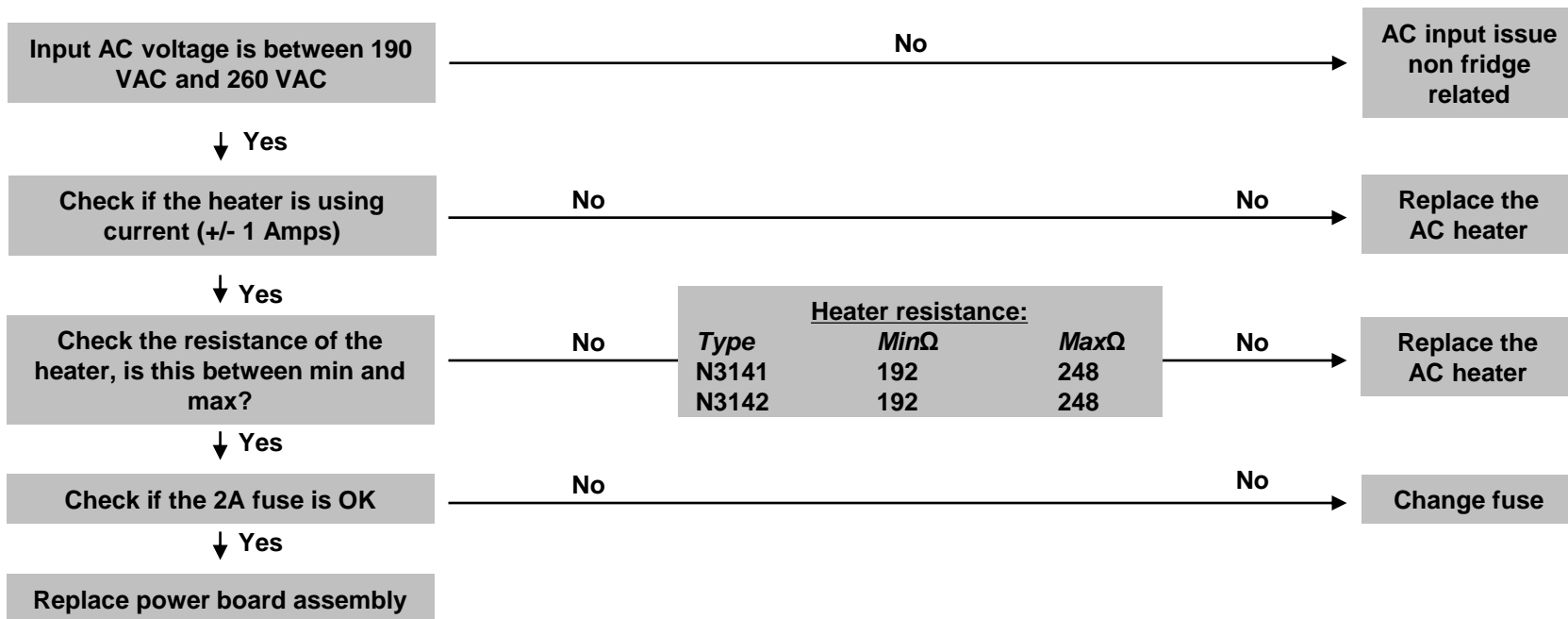
Error code 7: No “engine run” signal is present and control is in Manual DC mode.

!!! To know if D+ polarity is good, select manually DC mode and engine off. If no error code occurs, that means that the D+ input is reversed. Ensure power supply is capable to supply correct amperage !!!

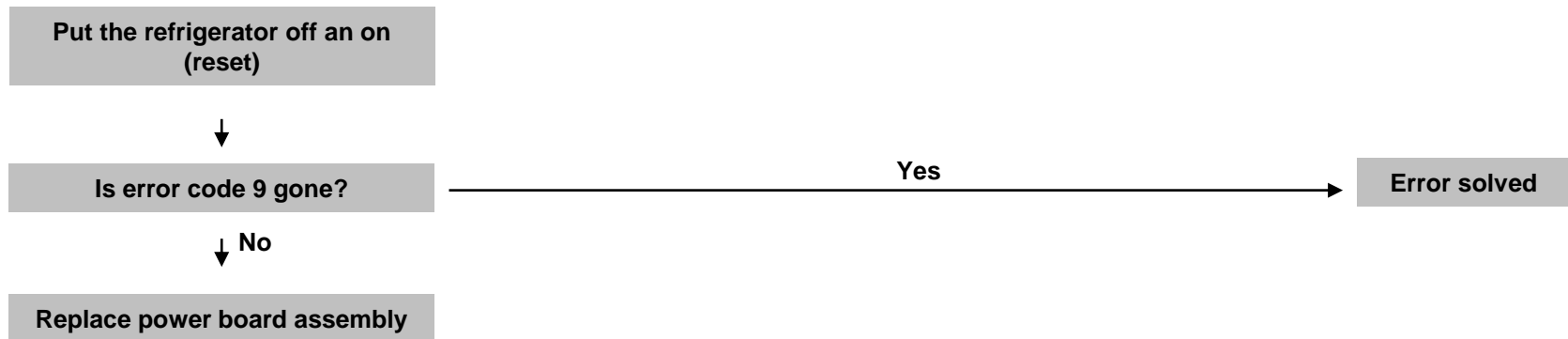


Error code 8: AC heater current is measured to be 75% below nominal current.

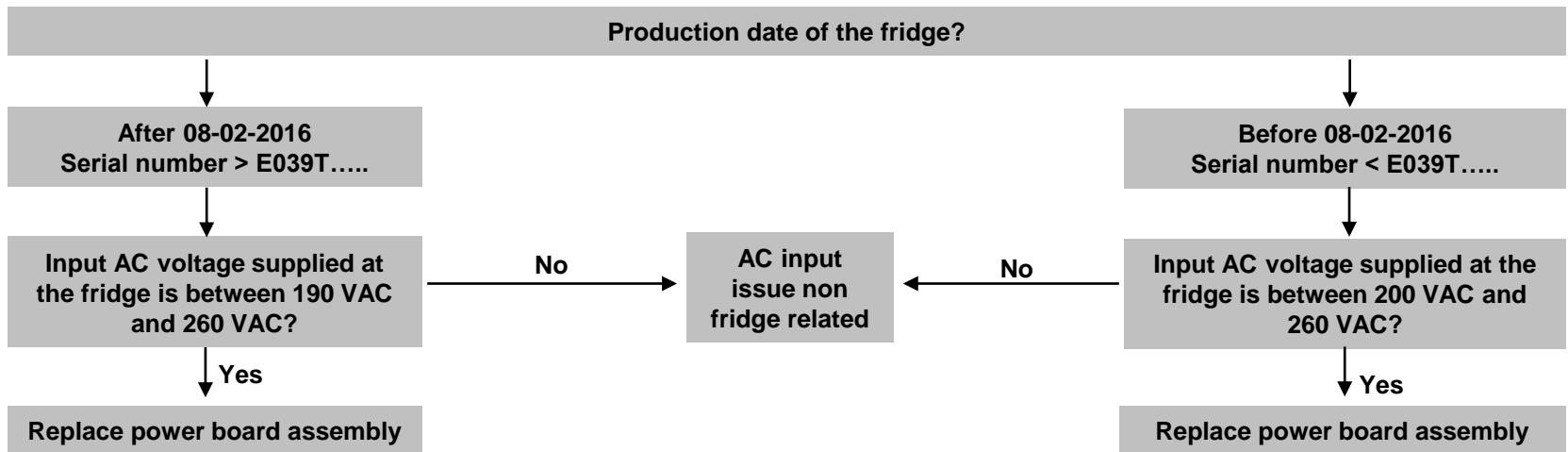
!!!Note: put fridge off when measuring resistance off the heater!!!



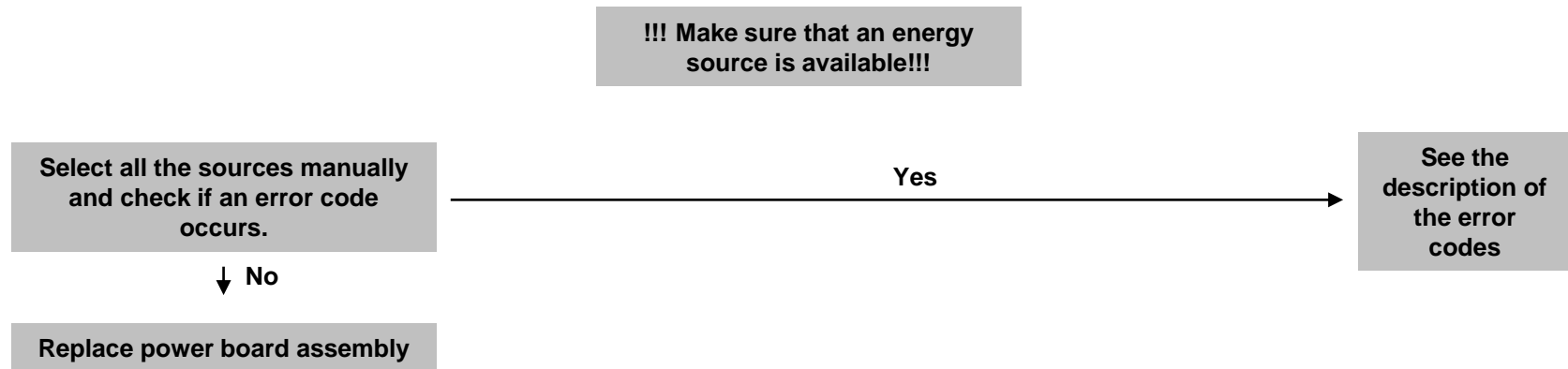
Error code 9: AC heater is ON when it should be OFF



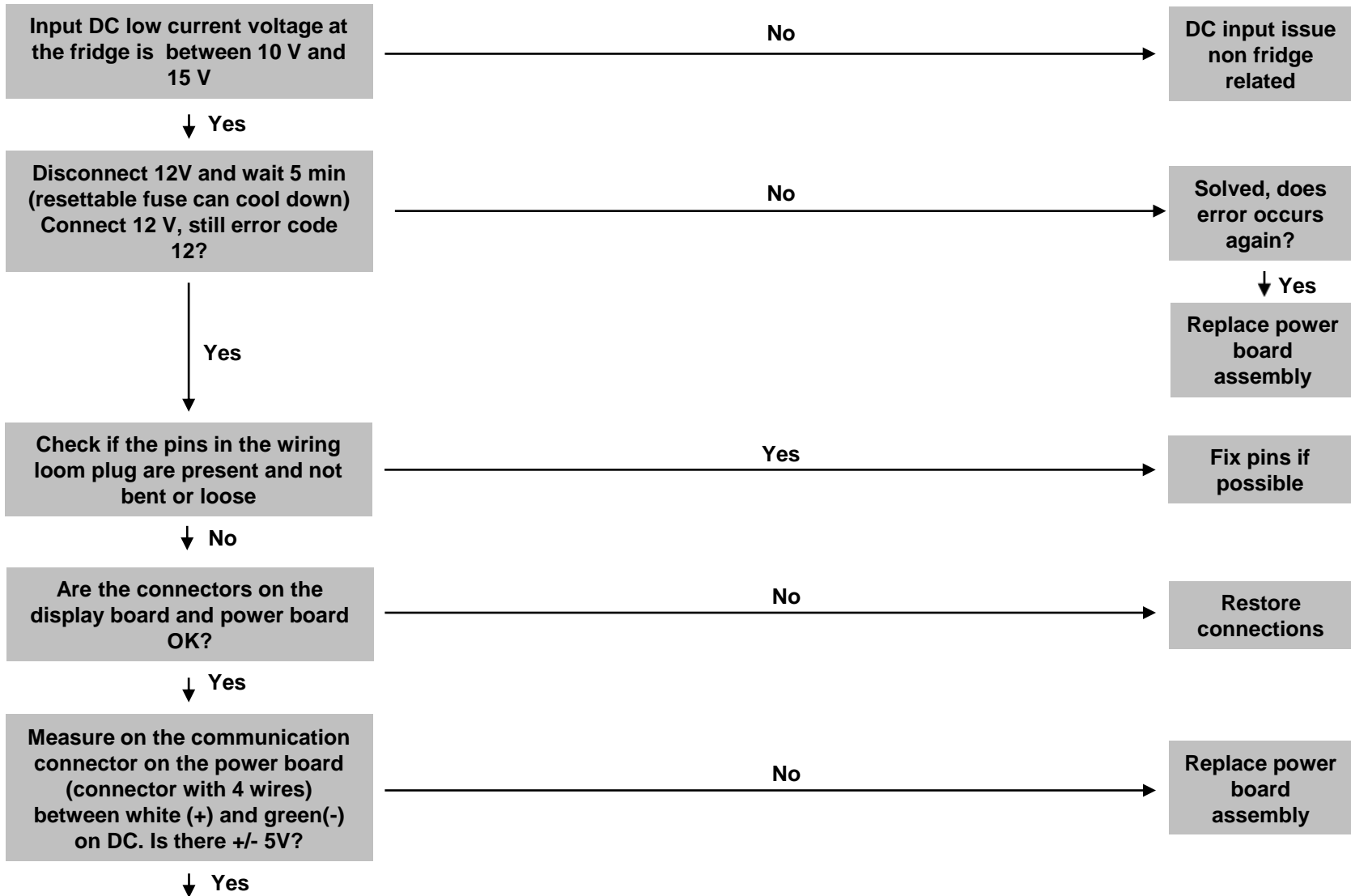
Error code 10: AC mains supply is out of range



Error code 11: No energy source is available and control is in AUTO mode



Error code 12: Display board and power board lose communication with each other.



Error code 12: Display board and power board lose communication with each other.

↓ Yes

Measure on the display board between white and green. Is there +/- 5V?

No →

Replace cable between power- and display board

↓ Yes

Measure on the display board between the yellow (+) and green (-) wire on AC. Is there a pulse that is going on and off between 0.5 and 0.7 VAC?

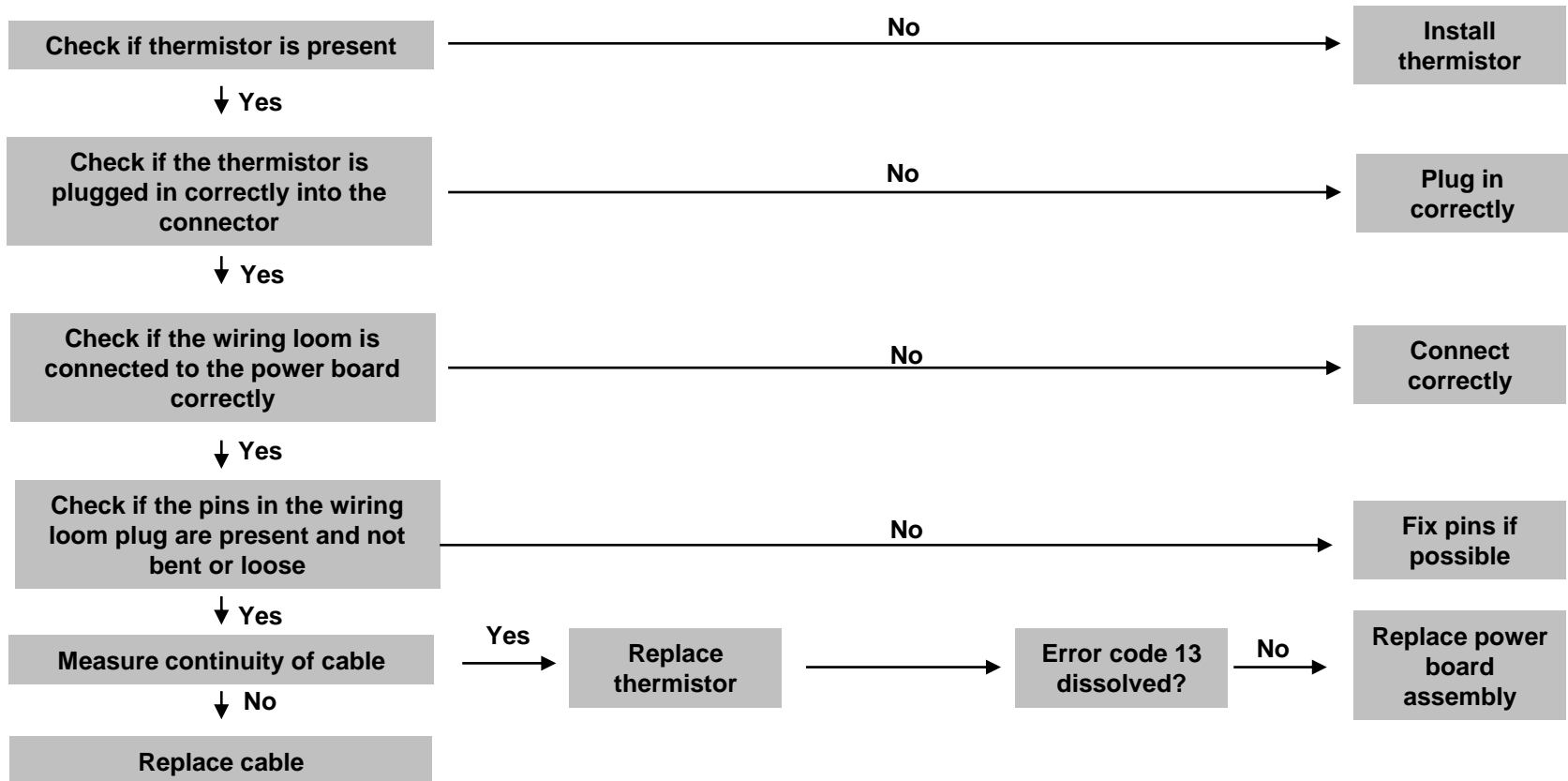
No →

Replace power board assembly

↓ Yes

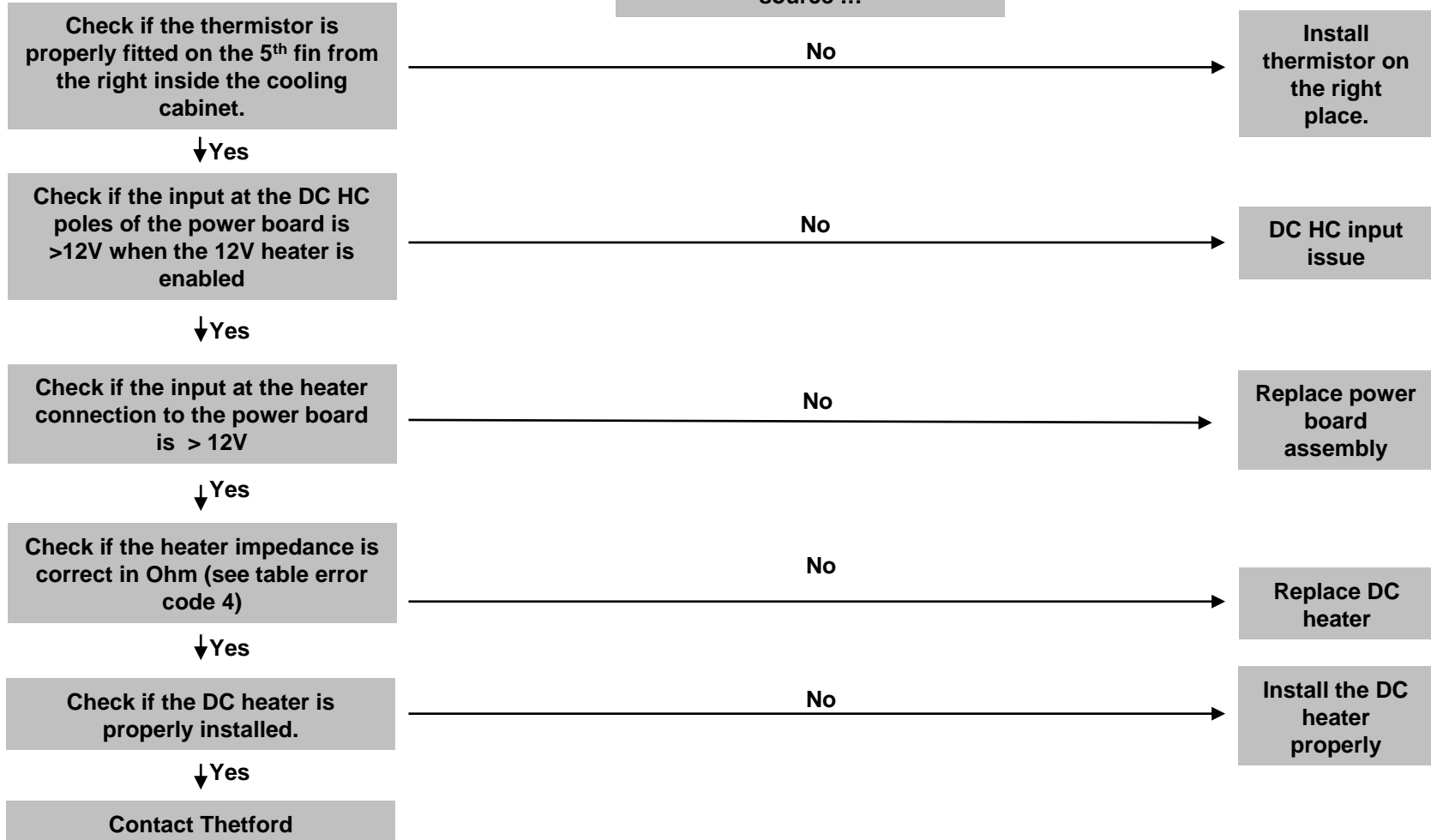
Contact Thetford

Error code 13: Thermistor fails; control automatically switches to Backup Operation System



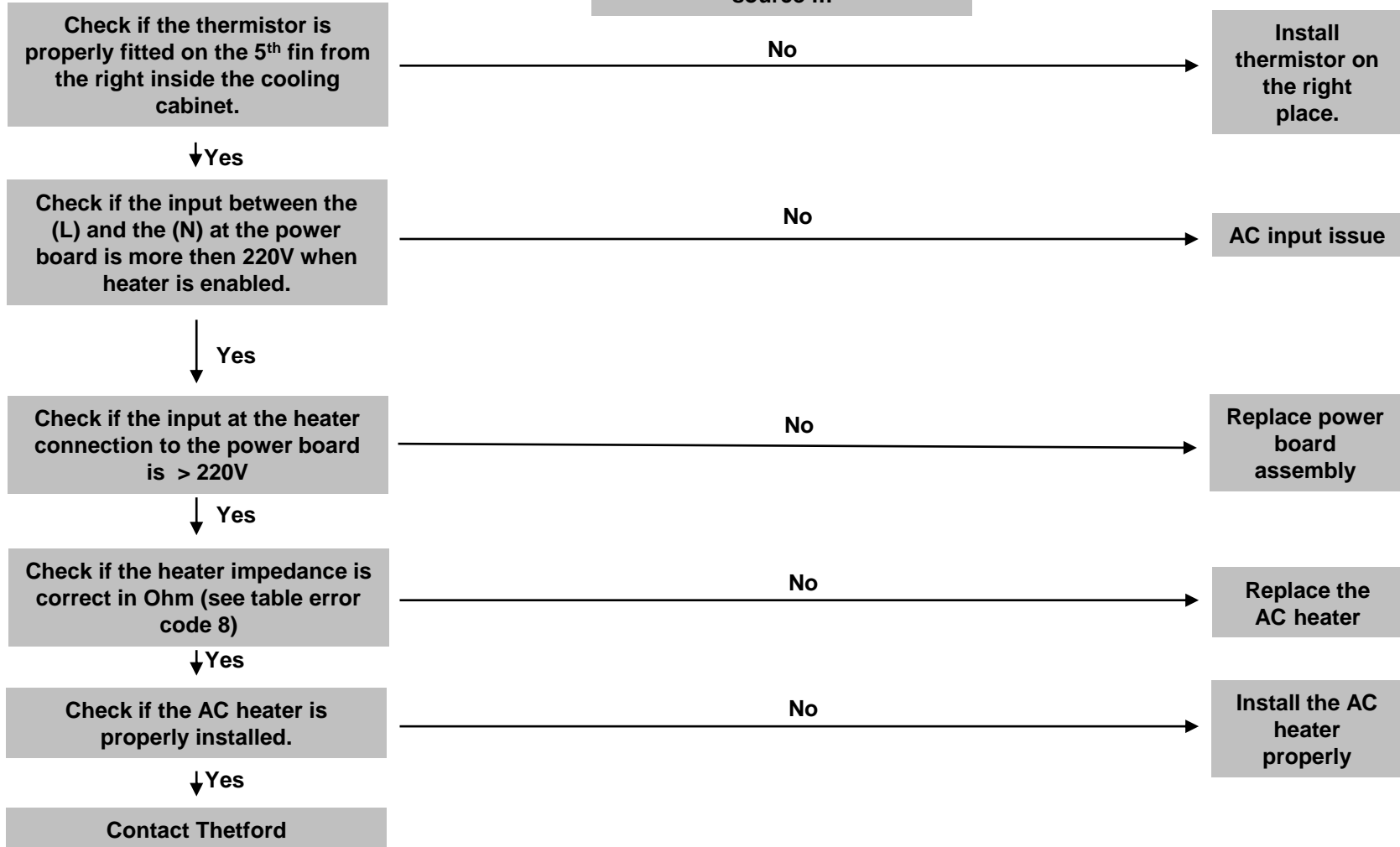
Inadequate performance on 12 VDC source and no error code.

!!! Do the testing of the fridges on the manual mode of this source !!!



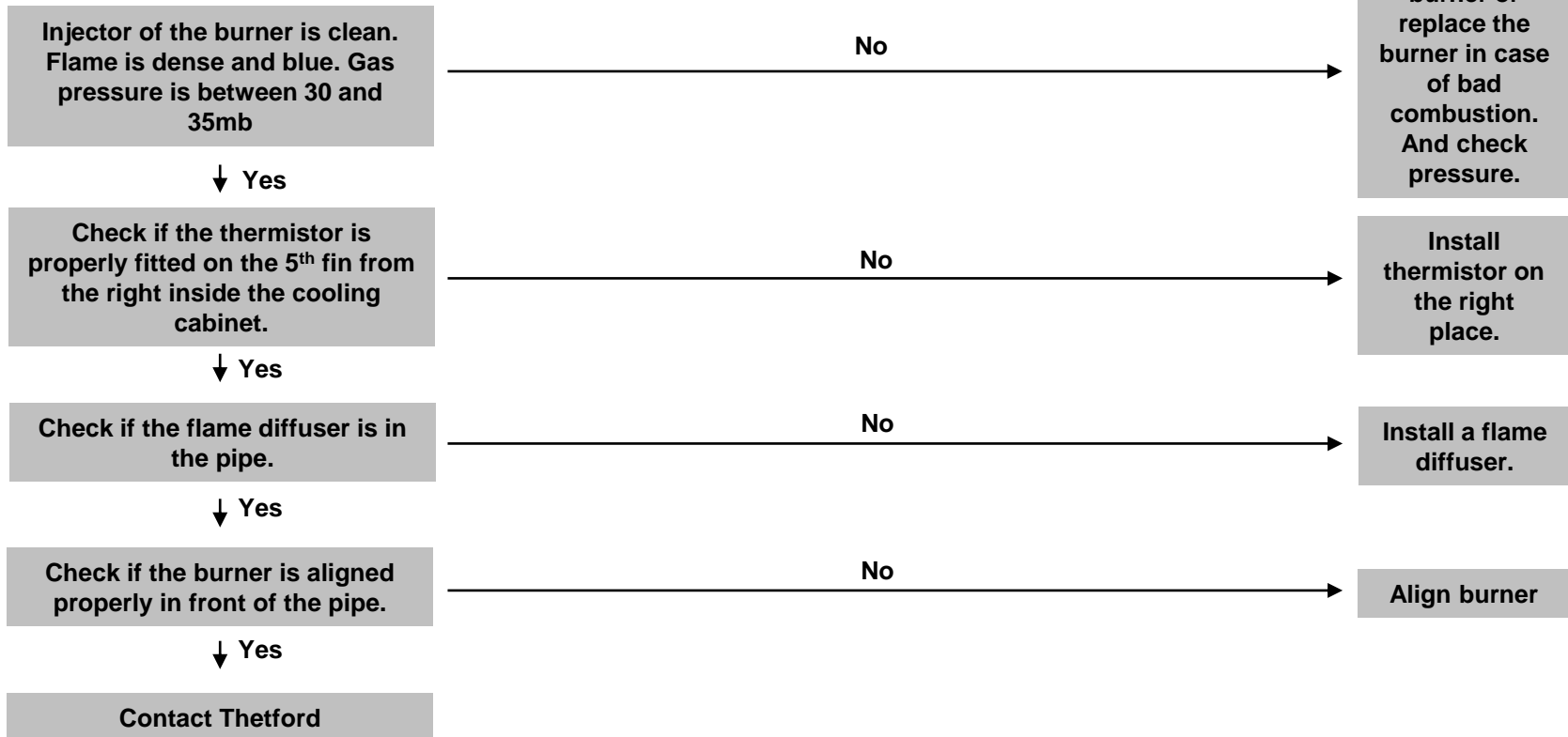
Inadequate performance on 230 V source and no error code.

!!! Do the testing of the fridges on the manual mode of this source !!!



Inadequate performance on gas source and no error code.

!!! Do the testing of the fridges on the manual mode of this source !!!



Appendix: Wiring diagram

