

### **Thetford Fridge terminology**

### **Product lines**

DeLuxe line refrigerators with control knobs

All refrigerators which are supplied WITHOUT the LCD display control panel.



Manual Energy Control (MEC) Piëzo (V85)



Manual Energy Control (MEC) Piëzo



Manual Energy Control (MEC) Electronic



Manual Energy Control (MEC) Electronic Isphording





DeLuxe line refrigerators with LED



Smart Energy Selection (SES) LED





#### • Premium LCD line refrigerators

All refrigerators which are supplied **WITH** the LCD display control panel.





Either Electronic Energy Selection (EES) or Smart Energy Selection (SES) Automatic

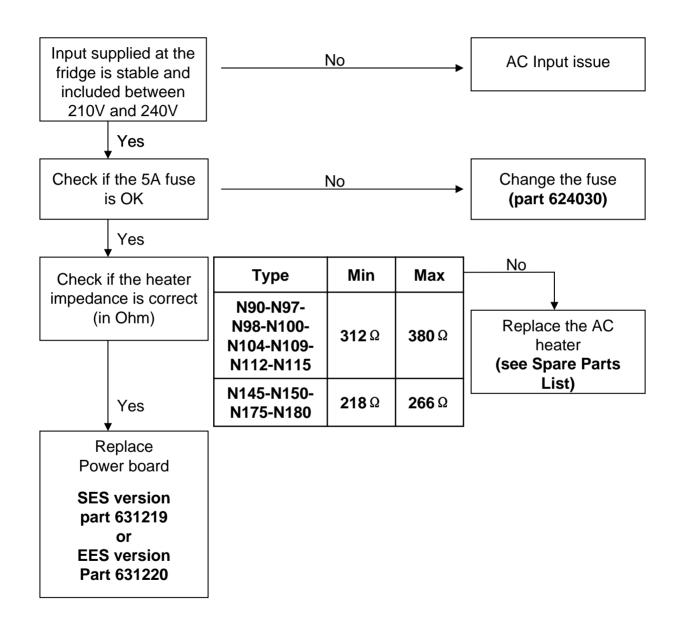


Press the left button (mode selection switch), when you see Auto on the left side of the display you have a SES version when not, you have an EES version





## Error code 1 AC heater current is measured to be 75% below nominal current

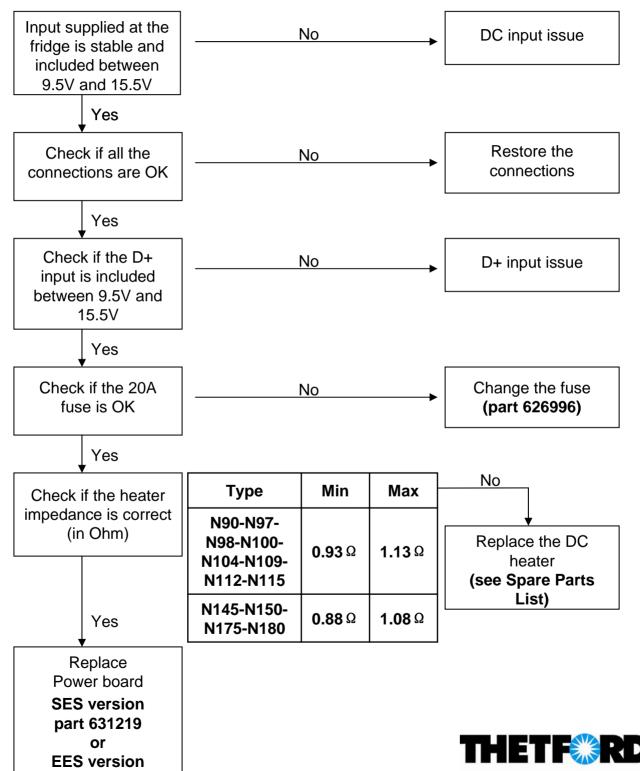




Part 631220

## Error code 2 DC heater current is measured to be 75% below nominal current

ACCOMPANIES YOU.

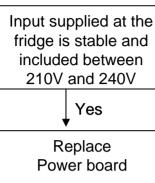




### Error code 3 AC heater is ON when it should be **OFF**

AC input issue

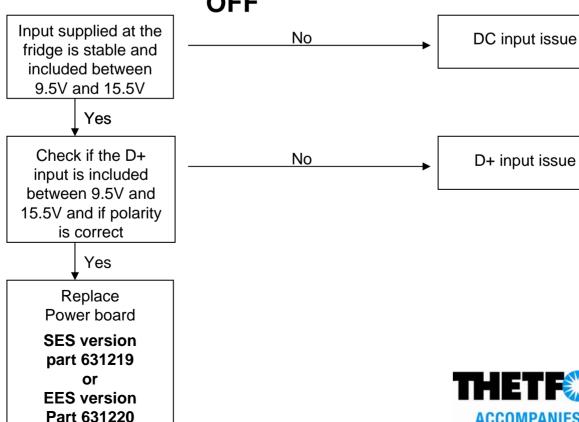
No



part 631219 or **EES version** Part 631220

**SES** version

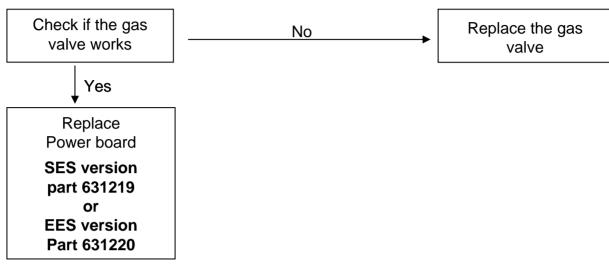
**Error code 4** DC heater is ON when it should be **OFF** 







### Error code 5 Senses flame when gas should be OFF



## Error code 6 Senses gas output terminal ON when should be OFF

Replace Power board: - SES version part 631219 - EES version part 631220

Error code 7
Senses gas output terminal OFF

- EES version part 631220

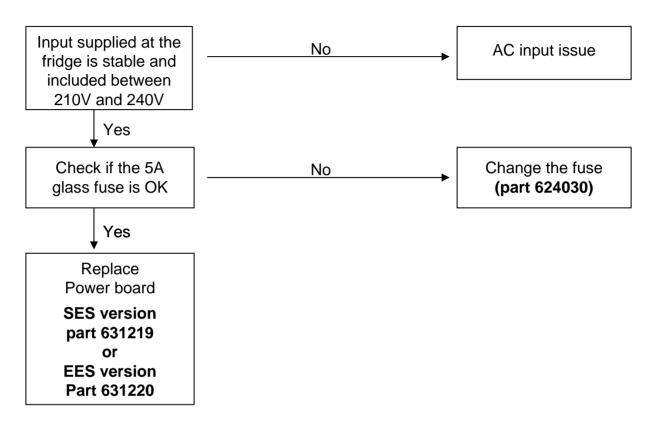
Replace Power board: - SES version part 631219

when should be ON





## Error code 8 AC mains supply is below 20% nominal





#### Error code 9 Gas lockout because flame fails to ignite after 30 seconds Check if there is Ensure there is gas No gas to the fridge in the cylinder & that it is turned on along Yes with all isolation tops Check if the gas Check if there No lights is a spark Yes Yes Nο Check if the spark continues Yes Check if the No electrode gap is set Adjust the electrode No at about 4 mm No gap to approx. 4 mm above the burner Yes Replace electrode Check electrode No No connections & look Yes for damages Check if the Replace the gas Yes No 、 gas valves valve Injector of the burner opens is clean. Flame is No No Clean the burner and dense and blue. the injector. Replace the burner in case of Yes Yes bad combustion Check if the gas (see Spare Parts Replace Yes pressure is between List) Power board 28 and 30 mb **SES** version part 631219 No or **EES** version Check the gas Part 631220 installation ACCOMPANIES YOU.



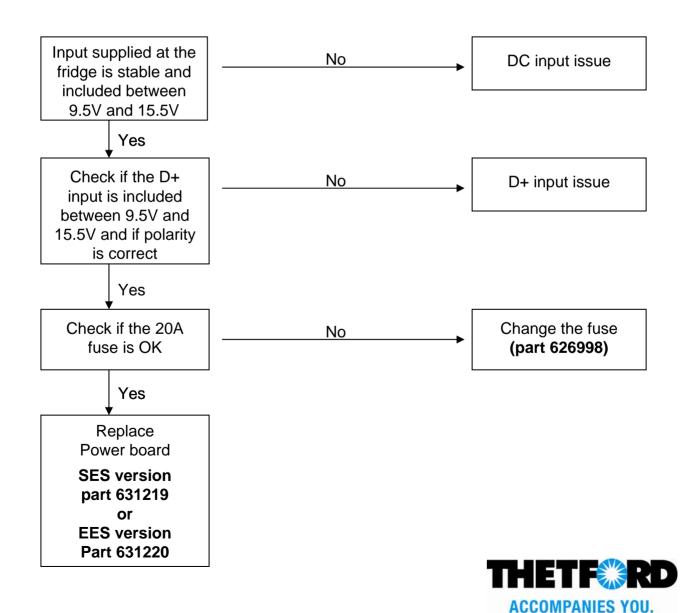
# Error code 10 "No engine running" signal is Present and control is in Manual DC mode



To know if D+ polarity is good, select manually DC mode engine off.

If no error code occurs, that means the D+ input is versed.

Ensure power supply is capable to supply correct amperage.

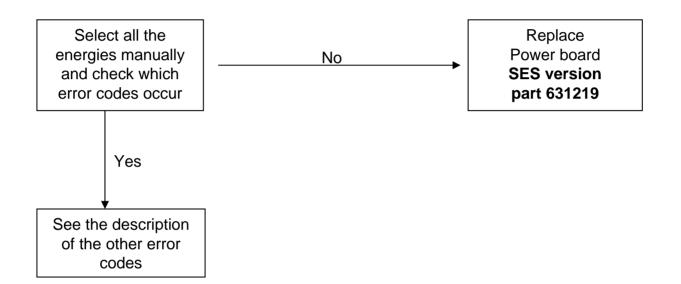




## Error code 11 No energy source is available and control is on AUTO mode



Please make sure that all energy sources are available during the trial



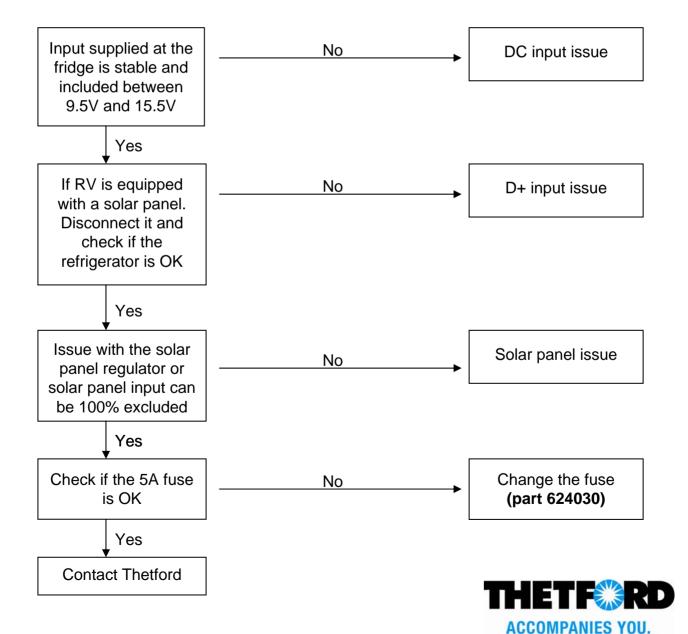




### Error code 12 Supply voltage DC is out of range (9.5V – 15.5V)

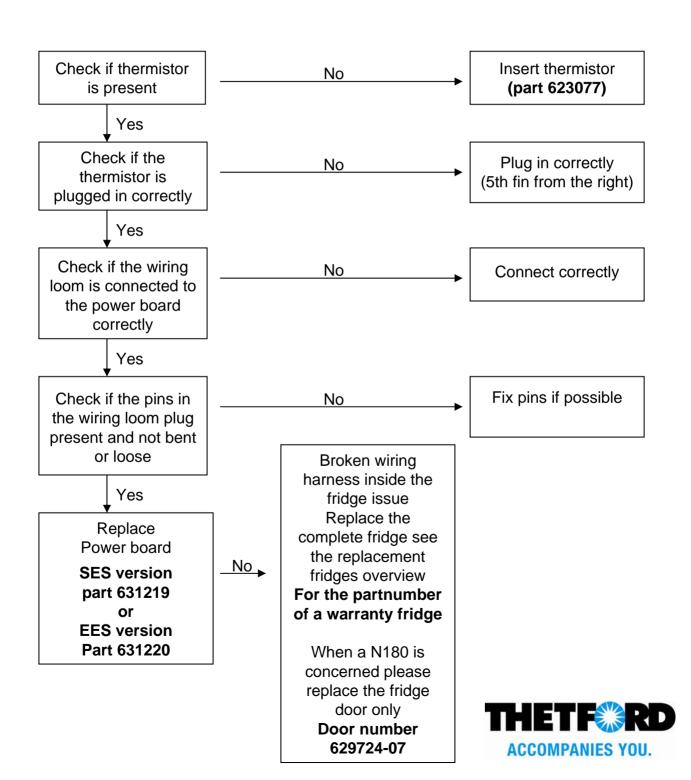


If DC mode have been selected manually, the refrigerator is not switching automatically on another source of energy when the engine is off



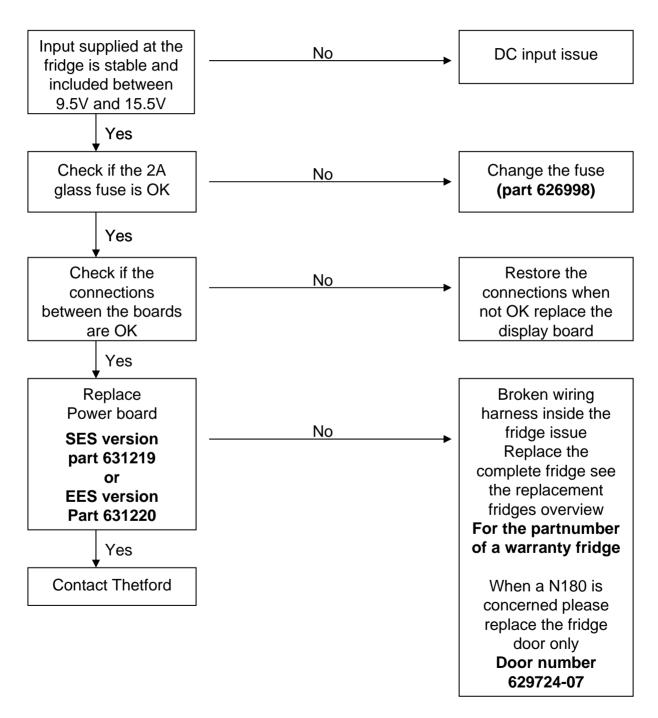


# Error code 13 Thermistor fails, control automatically switches to backup mode (BOS)





## Error code 14 Display board and power board lost communication to each other





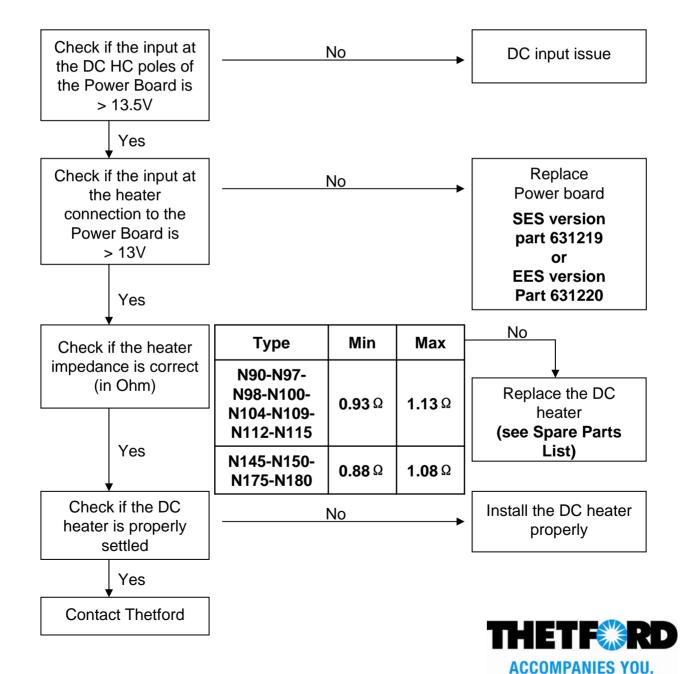


### Lack of performance No error code

### On 12 Volts



Do the testing of the fridges on the manual mode

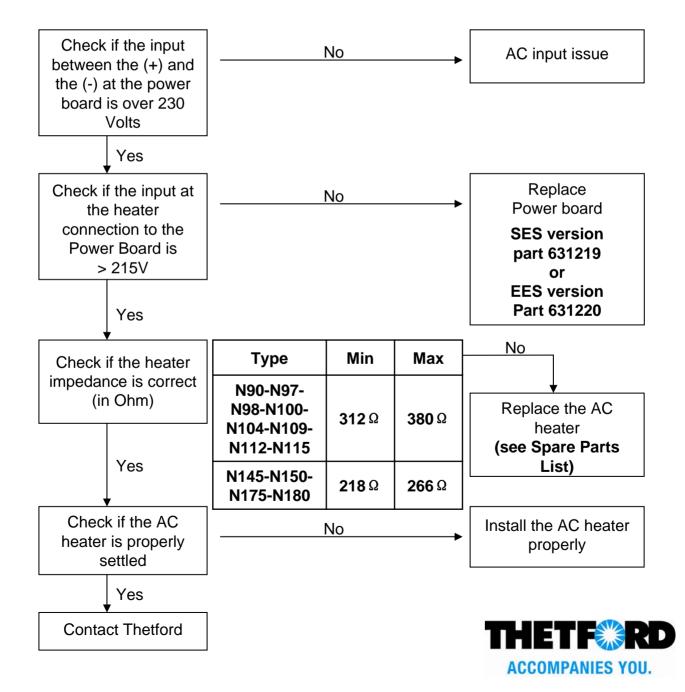




### On 230 Volts



#### Do the testing of the fridges on the manual mode

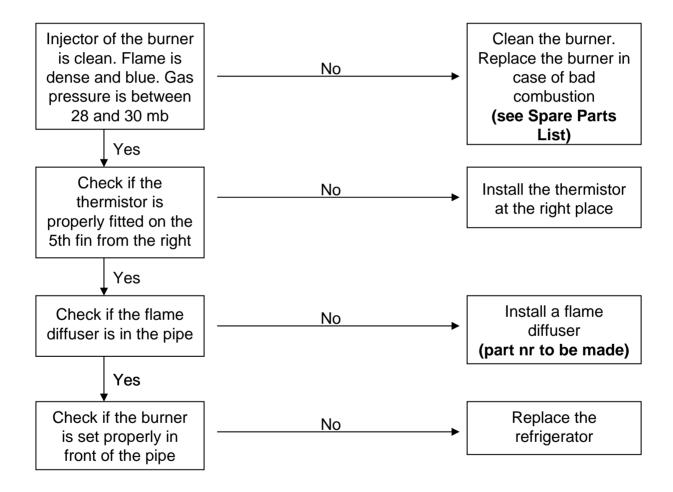




#### On Gas



#### Do the testing of the fridges on the manual mode







Issue : A not replaceable fuse (F5) is blowing on the power

boards, caused by wrong signal in circuit (f.i. short cut).

Solution : Re-settable fuse integrated on the power board.

Implementation : November 1st 2007

Spare part nr. : 631219 and 631220

Compensation : 30 minutes

Repair-instruction : See repair instruction part



Power board old version Underside of Top Half F5 fuse is at top centre



Modified power board with re-settable fuse shown in position







### **Corrosion on all Fridges shelves**

Issue : Corrosion on all shelves

Solution : Re-inforced coating process to prevent rusting during

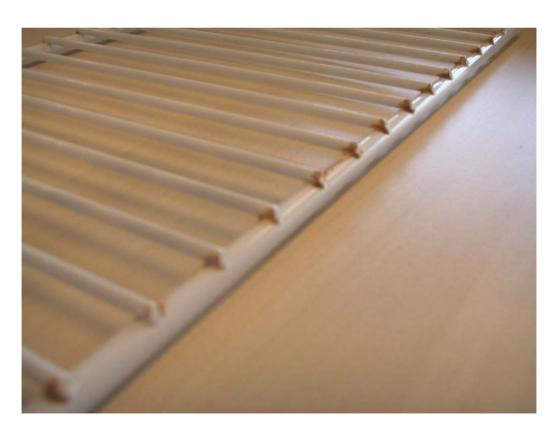
life time product (7 years)

Implementation : June 22nd 2007 for all shelves

Spare part nr. : See spare part list

Compensation : 5 minutes

Repair-instruction : not included







Gas connections			
Picture	Tool	Torque	
Nut solenoid GV	Torque spanner 13mm	3 +1/-0 Nm	
Burner – orifice adapter	Torque spanner 16mm	7.5 +1/-0 Nm	
Gas tube assy – orifice adapter	Torque spanner 14mm	15 +1.5/-0 Nm	





Gas tube assy – V85 GV	Torque spanner 11mm	10 +0.5/-0 Nm
Gas inlet tube – V85 GV	Torque spanner 19mm	12 +2/-0 Nm
Thermocouple – V85 Gasvalve	Torque spanner 8mm	1.5 +0.5/-0 Nm
Gas inlet tube - LCD	Torque spanner 17mm	20 +2/ -0

