

Greenstar i Junior low NOx conversion kit

Converting to low NOx



NOTICE: Low NOx

- ▶ The Low NOx performance is achieved by changing the code plug.
- ▶ No adjustments need to be made.

The boiler can be converted to a “Low NOx” version.



CAUTION:

- ▶ ISOLATE THE MAINS ELECTRICAL SUPPLY BEFORE STARTING ANY WORK AND OBSERVE ALL RELEVANT SAFETY PRECAUTIONS.

The Greenstar i junior combi boilers require a new code plug to convert them to low NOx variants.

Each conversion kit is specific to the boiler size, refer to the table below.

Boiler type	Gas type	Code plug no.
24kW i junior kit	NG	1138
28kW i junior kit	NG	1139

Table 1 Code plug number

Access to code plug

- ▶ Remove boiler casing to access control panel.

1. Remove the screw securing the control panel.
2. Lower the control panel into the horizontal service position.

1. Referring to figure 1, unscrew the three screws in the control panel.
2. Remove the connections cover.

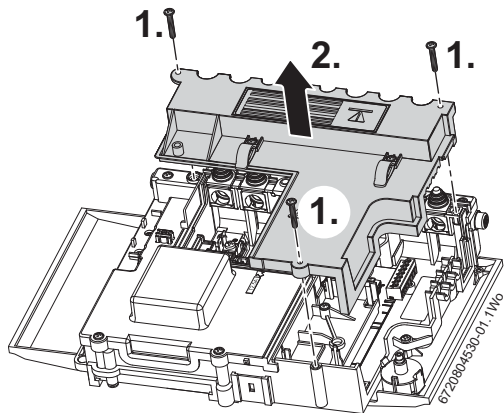


Fig. 1 Removing the connection cover

- ▶ Identify ST18, the code plug and connector.

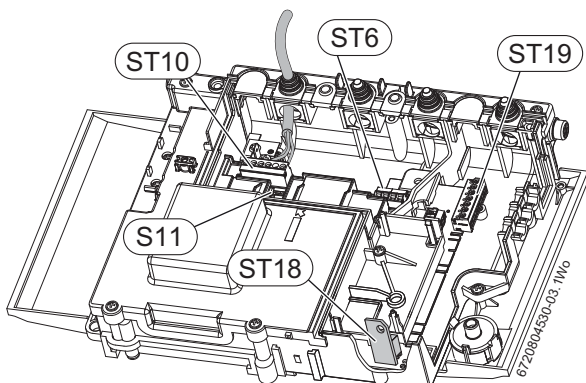


Fig. 2 Control box internal view

1. Refer to figure 3 and remove the code plug from the controller, cut the tie securing the plug to the boiler chassis and discard the plug and tie.
2. The new code plug, tie and low NOx labels are found in the kit. Fit the code plug from the kit, making sure that code plug is secured to the boiler chassis with the new tie.

- ▶ Confirm that the number on the code plug corresponds to the boiler type in table 1.
- ▶ Replace the control panel cover.
- ▶ Move the control panel into the operational position and secure.
- ▶ Replace the boiler casing.

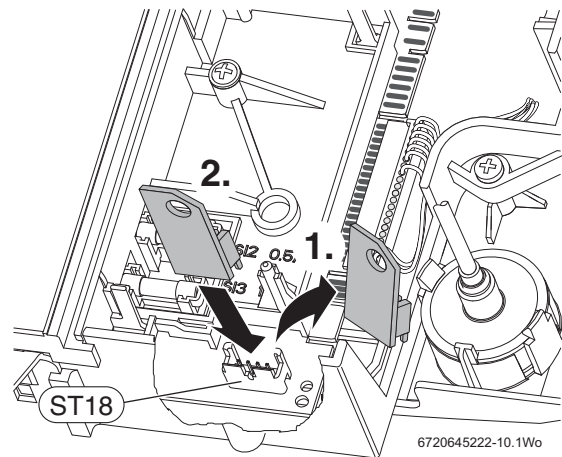




Fig. 3 Remove and replace the code plug

Update boiler data label

The boiler data label is located on the right-hand inside wall of the boiler.

	
GREENSTAR 28i JUNIOR condensing combi boiler	
Serial No: 5570 - XXX - XXXXXX - 7716130222	
GB - IE - CATII - 2H3P	
Type: C13 - C33 - C53	
Adjusted for Natural Gas 2H-G20-20mbar	
Boiler must be connected to governed meter	
Heat input CH (net)	7.00 - 24.62kW
Heat input domestic hot water(net)	28.57kW
Nominal heat output	
at 50/30 deg C	7.65 - 25.45kW
at 80/60 deg C	7.00 - 24.00kW
Domestic hot water	28.00kW
System pressure (max)	2.5bar
Minimum working gas pressure	18 mbar
Domestic water pressure (max)	10 bar
Specific flow rate D	13.4 l/min
Maximum delivered water flow rate	10 l/min
NOx - class	5
CO2 (Qmax/Qmin)	9.8% / 8.8%
Code Plug	8-714-431-136
230V - 50Hz 140W Fuse 3amp	
Appliance protection rating	IPX4D
With mechanical or RF mech. timer fitted	IP20
CE - 0086 P.IN. 63BP5424	
GC No: 47-311-87	
 Bosch Thermotechnology Limited Worcester WR4 9SW. UK	

7.00 - 13.40kW	
DHW 28.57kW	
7.65 - 13.85kW	
7.00 - 13.00kW	
DHW 28.00kW	
2.5bar	
18 mbar	
10 bar	
D 13.4 l/min	
Max 10.0 l/min	
NOx 5 38 mg/kWh	
CO2 9.8% / 8.8%	
8-714-431-139	
IPX4D	
IP20	
Installed as Low NOx	

2	3
GREENSTAR 28i JUNIOR Combi Mk V Condensing boiler Low NOx GC Nr: 47-311-87 N.G.	8 718 681 101 (2013/04)

6720802049-01.1Wo

Fig. 4 Low NOx data label

- ▶ To update the data label to show the “Low NOx” variant data, peel off the larger portion (1) of the green label and apply over the data label to cover the original data in the area of the dotted rectangle as shown on figure 4.

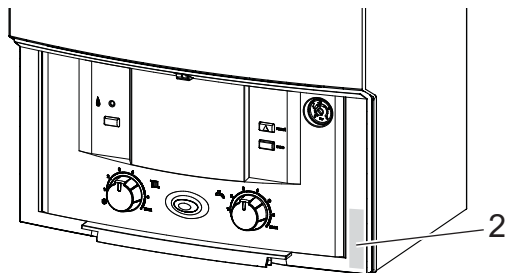


Fig. 5 Low NOx boiler identification label location

- ▶ To identify the boiler as a “Low NOx” variant, peel off the smaller portion (2) of the green label and apply to the bottom right corner of the fascia as shown in figure 5.
- ▶ The other portion of the label (3) can be discarded.



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