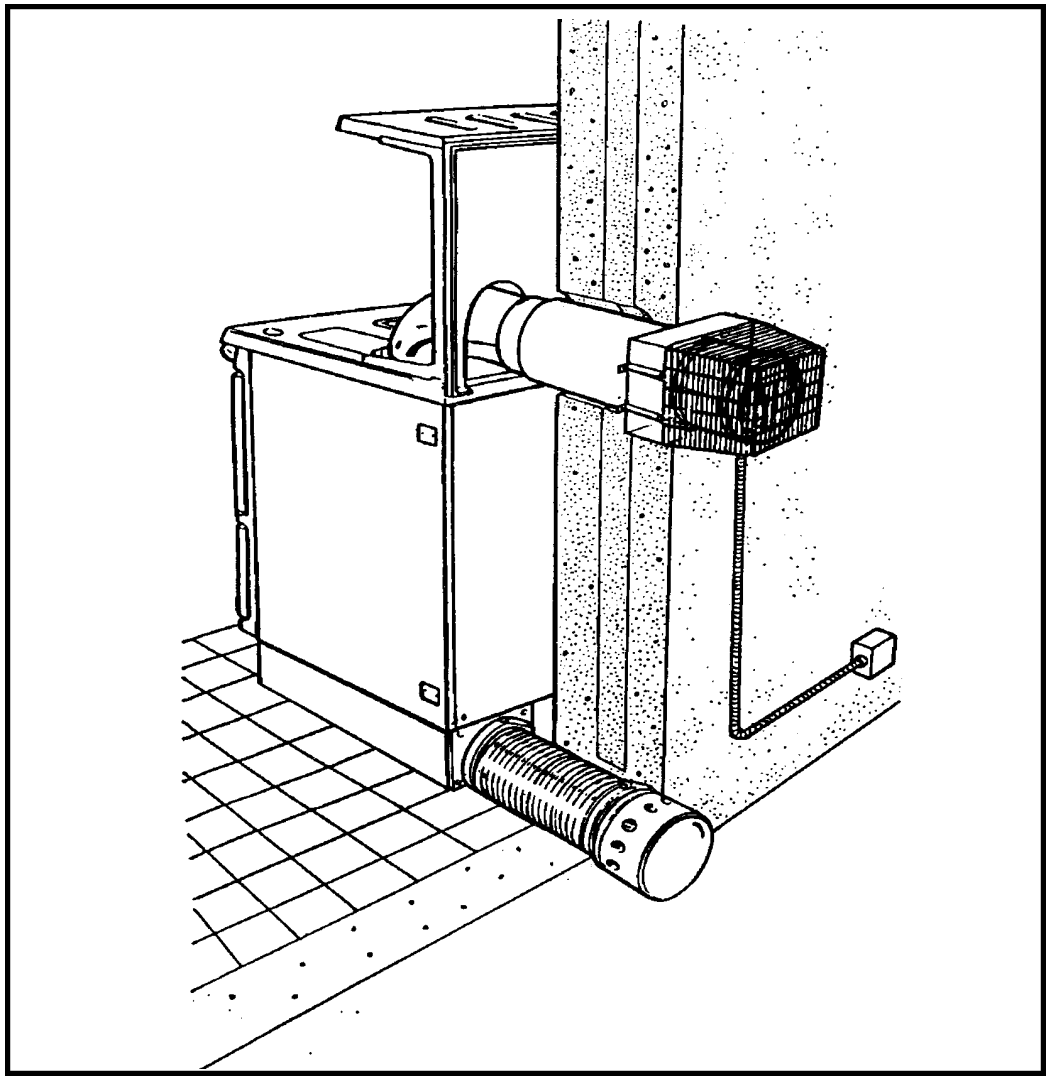
STANLEY

TURNING YOUR HOUSE INTO A HOME

Waterford Stanley Ltd.
Bilberry, Waterford Ireland.
Tel: (051) 302300 Fax: (051) 302375

BRANDON FAN FLUE KIT
OIL & GAS



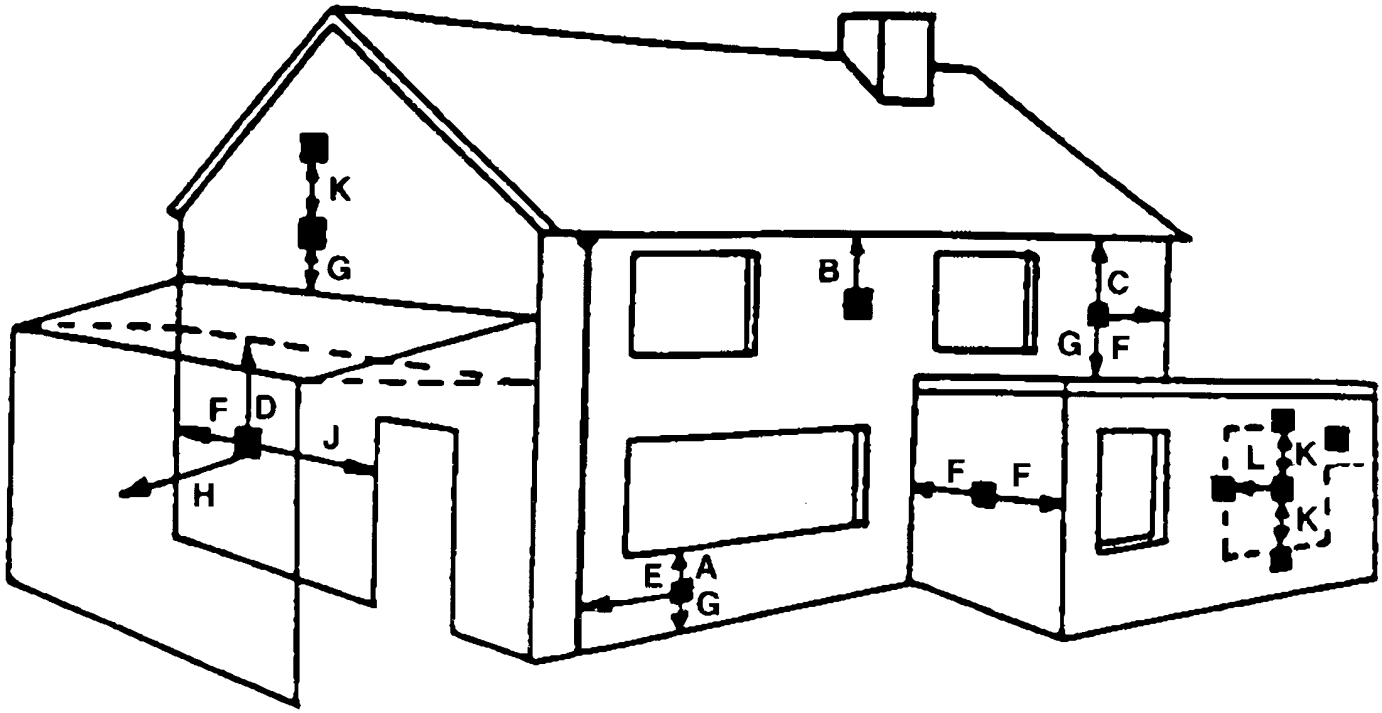
CONTENTS OF KIT:

1. Fan flue terminal.
2. Terminal Guard.
3. Fixing Brackets.
4. Primary air inlet spigot.
5. Air inlet duct.
6. Air Inlet terminal.
7. Jubilee clips.
8. M6 Nuts and Bolts (4 No)
9. Installation Manual.
10. Junction box and flexible cable tubing.
11. Burner connection cable.
12. Blanking plate (Gas cookers only)

IMPORTANT.

Fan Flue Terminal Kit is **NOT** to be connected to an appliance burning 35 Sec. class D fuel.

POSITION OF FAN FLUE TERMINAL FOR GAS FIRED COOKERS

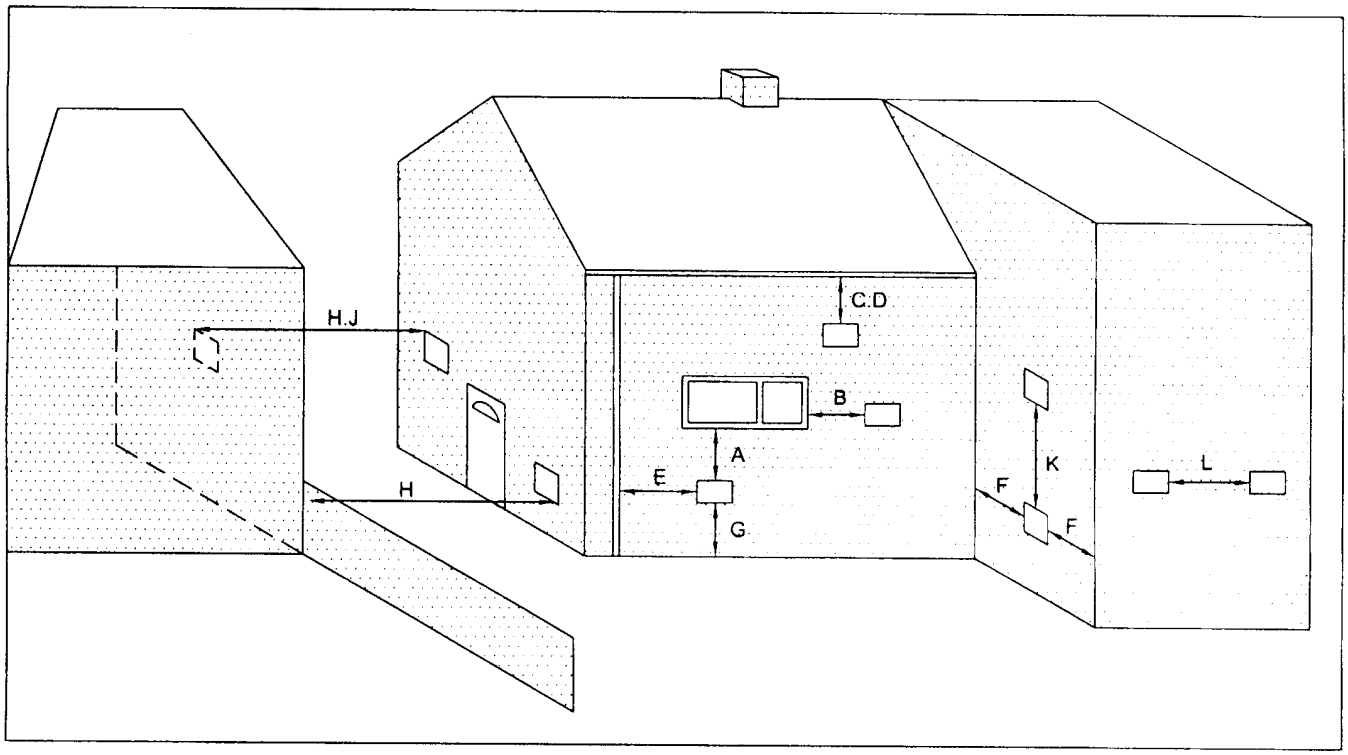


Car port (open sides)

GAS FIRED COOKERS - MINIMUM DISTANCES TO TERMINALS ARE AS FOLLOWS:		
A.	Directly below an opening, air brick, window etc.	300
B.	Below a gutter, eaves or balcony with protection.	75
C.	Below a gutter or a balcony without protection.	200
D.	Below balconies or car port roof.	200
E.	From vertical drain and sanitary pipe work.	75
F.	From an internal or external corner.	300
G.	Above ground or balcony level.	300
H.	From a surface or boundary facing the terminal.	600
I.	From a terminal facing a terminal.	1200
J.	Horizontally to an opening, air brick, window etc.	1200
K.	Vertically from a terminal on the same wall.	1500
L.	Horizontally from a terminal on the same wall.	300

Refer to Part J of the Building Regulations, England & Wales, Irish Building Regulations. B.S. 5440 Part 2 and Part F of the Building Standards (Scotland) Regulations.

POSITION OF FAN FLUE TERMINAL FOR OIL FIRED COOKERS



OIL FIRED COOKERS		
A	Directly below an opening, air brick, window etc..	600
B	Horizontally to an opening, air brick, window etc..	600
C	Below a gutter, eaves or balcony with protection	75
D	Below a gutter or a balcony without protection	600
E	From vertical sanitary pipework	300
F	From an internal or external corner	300
G	Above ground or balcony level	300
H	From a surface or boundary facing the terminal	600
J	From a terminal facing the terminal	1200
K	Vertically from a terminal on the same wall	1500
L	Horizontally from a terminal on the same wall	750

Refer to part of the Building Regulations England and Wales, Irish Building Regulations. B.S. 5410 Part 1, and Part F of the Building Standards (Scotland) Regulations.

BRANDON FAN FLUE KIT ASSEMBLY AND INSTALLATION

SEE LIST OF CONTENTS WHEN ITEM NUMBERS ARE REFERRED TO:

STEP 1.

(a Remove the cover plate from the Air inlet back panel by removing the fixing screws. (fig. 1).

Fig.1

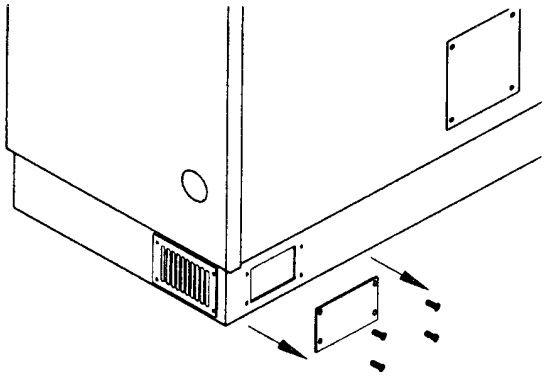


Fig.2

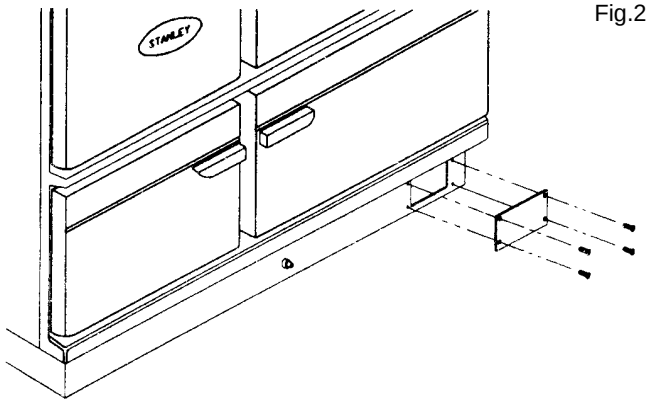
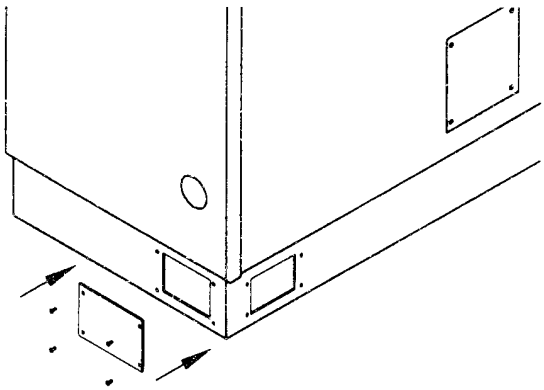


Fig.3



(b) Replace the cover plate over the air vents on the lower right hand side of the cooker, using the back panel cover plate and replace screws which have been removed. (see fig.2)

(c) Fit blanking plate over air vent on right hand side. Gas cookers only (see fig.3).

Fig.4

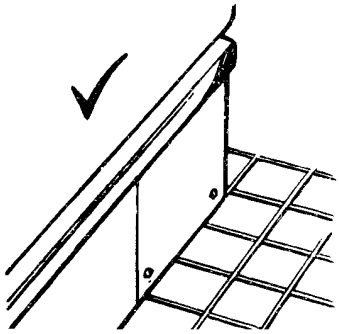
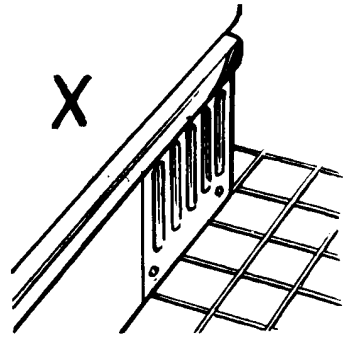


Fig.5



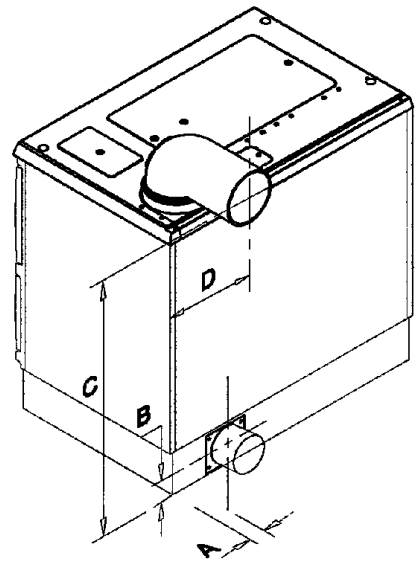
STEP 2.

(a) Fit the primary air spigot (item 4) over the opening with the 1/4" BSW screws removed from front panel.

(b) Cut the Air inlet duct (item 5) to the required length, allowing for the connection to the cooker, the cooker wall clearance and the air inlet terminal. (item 6).

(c) Push on Air inlet duct (item 5.) over the primary air spigot (item 4) and secure using one of the jubilee clips. (item 7.)

Fig.6



A = 130mm
B = 76mm
C = 1047mm
D = 194mm

STEP 3.

(a) Make two openings through the wall, one a 150mm (6") and one 250mm (10") diameter, where the cooker is to be located. The 150mm (6") opening is for the primary air inlet duct. The 250mm (10") is for the fan flue terminal assembly. See (fig. 6) for fixing centres.

STEP 4.

(a) Position cooker against wall allowing for the minimum clearance. (See cooker clearances in Installation & Commissioning manual).

STEP 5.

(a) Fit cast iron bend to cooker hob.

(b) Connect the fan flue terminal assembly (item 1.) to the cast iron bend.
(c) Make sure that all joints are tight and fully secured.
(d) Seal the primary air inlet duct and fan flue terminal to wall, using either an approved refractory or suitable fire cement.

STEP 6.

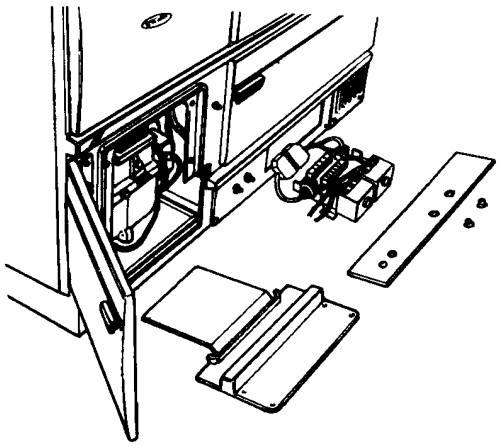
(a) Connect the air inlet terminal (item 6.) to the flexible duct (item 5.) and secure using remaining jubilee clip (item 7).
(b) Screw the (item 3) terminal guard fixing brackets to the wall and bolt terminal wire guard (item 2.) to the brackets.

STEP 7.

IMPORTANT:

All electrical connections and wiring should only be carried out by competent persons.

Fig.7



STEP 8

Fit the junction box (item 10) to the wall externally adjacent to the appliance positioned internally and pass electrical cable through the wall, then pass through panel on left hand side of the cooker and connect into side of the cooker and connect into appliance (see wiring diagram) (item 9).

STEP 9

Fit bottom plinth/panel to cooker.

STEP 10

(a) Check that all fastenings and joints are tight, fully secured and sound.
(b) Check the correct cooker clearances and terminal locations are adhered to.

STEP 11

When commissioning the cooker check the negative pressure in the flue at the elbow and adjust the slide (See Fig.8) to obtain .75mm (0.03" w.g.) minimum. To reduce the readings open the slide and to increase close. A draught reading of between .75mm 0.03" w.g. and 1.25mm 0.05" w.g. should be achieved with both burners running. Ensure that the pressure switch operates correctly.

CONNECTION OF FAN FLUE TO COOKER

(a) Isolate from mains before carrying out any work.
(b) Remove both control boxes (boiler and oven) by undoing the clips on each side of the control box (Landis & Gyr) or undoing the centre screw (Satronic).
(c) Feed fan flue wiring in to the base of the cooker through the panel on the left hand side. Then feed wiring through a panel in the divider plate until sufficient wire is there to connect to the control box and PCB. Connect wiring using the appropriate wiring diagram. Brandon gas with satronic control box (see fig.9). Brandon gas with Landis & Gyr control box (see fig. 11) Brandon oil. (See fig.10)

CONNECTION: GAS BOILER CONTROL BOX (Landis & Gyr)

(a) Remove grey wire from terminal 4, (there is also a red wire in terminal which is not to be removed). Connect one of the red wires from the fan flue assembly into terminal 4.
(b) Connect the grey wire removed from terminal 4 and the last remaining red wire from the Fan Flue Assembly together using the connector 32 on the control box base. (see fig.11)

GAS OVEN CONTROL BOX (Landis & Gyr)

(a) Remove grey wire from terminal 4, (there is also a yellow wire here which is not to be removed. Connect one of the yellow wires from the fan flue assembly into terminal 4.
(b) Connect the grey wire removed from terminal 4 and the last remaining yellow wire from the Fan Flue Assembly together using connector 32 on the control box base. (see fig 11).

CONNECTION: OIL BOILER CONTROL BOX (Landis & Gyr)

(a) Remove grey wire from terminal 4 and connect one of the red wires from the Fan Flue assembly into terminal 4.
(b) Connect the grey wire removed from terminal 4 and the last remaining red wire from the Fan Flue Assembly together using the connector 32 on the control box base. (See fig.10)

OIL OVEN CONTROL BOX (Landis & Gyr)

(a) Remove grey wire from terminal 4 and connect one of the yellow wires from the Fan Flue Assembly into terminal 4.
(b) Connect the grey wire removed from terminal 4 and last remaining yellow wire from the Fan Flue Assembly together using connector 32 on the control box base. (see fig.10)

CONNECTION: GAS BOILER CONTROL BOX (Satronic)

(a) Remove grey wire from terminal 5. (There is also a red wire in terminal 5 which is not to be removed).
Connect one of the red wires from the fan flue assembly into terminal 5.
(b) Connect the grey wire removed from terminal 5 and the last remaining red wire from the Fan Flue Assembly together using an electrical strip connector. (see fig 9)

GAS OVEN CONTROL BOX (SATRONIC)

(a) Remove grey wire from terminal 5 (there is also a yellow wire in terminal 5 which is not to be removed).
Connect one of the yellow wires from the fan flue assembly into terminal 5.
(b) Connect the grey wire removed from terminal 5 and the last remaining yellow wire from the fan flue together using an electrical strip connector. (See fig.9)

PRINTED CIRCUIT BOARD
OIL & GAS

(a) Place green wire on to terminal “Fan Flue A” on the main power board. (See Fig. 9, 10 & 11)

N.B. If there is no reference to “Fan Flue A” on the Printed Circuit Board, place green wire onto “Cyl STAT” 5.

(b) Connect blue wire to neutral terminal points and yellow/green to earth terminal points on the main power board. (See fig.9, 10 & 11)

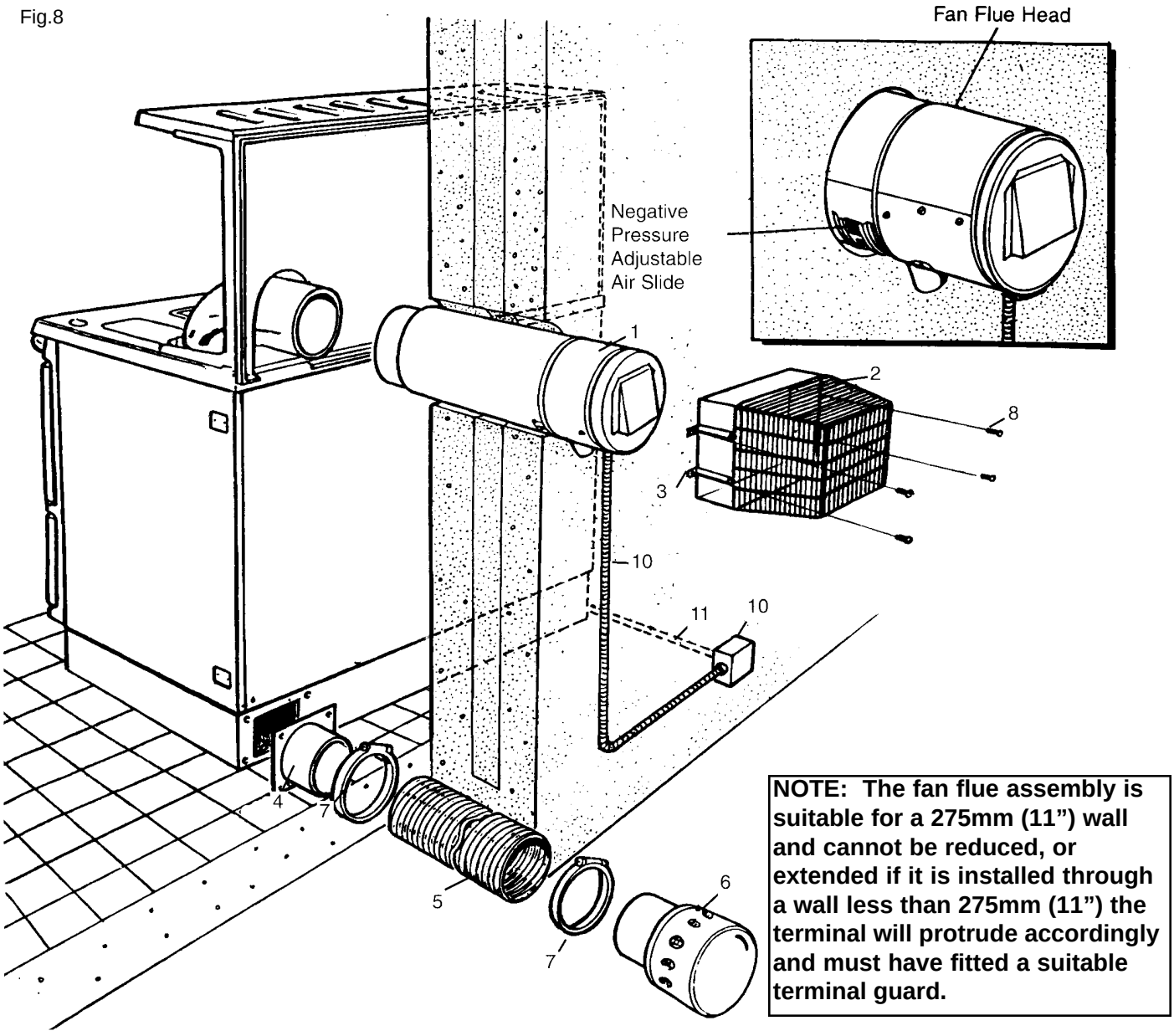
FAN FLUE MUST BE EARTHED

There is an extended flue assembly available (to order) that is suitable to be installed through wall thickness of 368mm (14.5”) 444mm (17.5”) 495mm (19.5”) and a maximum of 558 (22”).

To reduce the length of the assembly from the maximum of 550 (22”) wall thickness, undo the band retaining the end reducer and remove the reducer taking care that no damage occurs. Select the thickness required and cut through the assembly on the inner most of the paired groves. Care must be taken to cut straight and to remove all sharp edges. Place the reducer in position at the inner most end of the flue assembly and fix into position by re-locating the band on the remaining grove and lock into place.

Install the air duct as normal cutting the flexible liner to the correct length in accordance with the wall thickness.

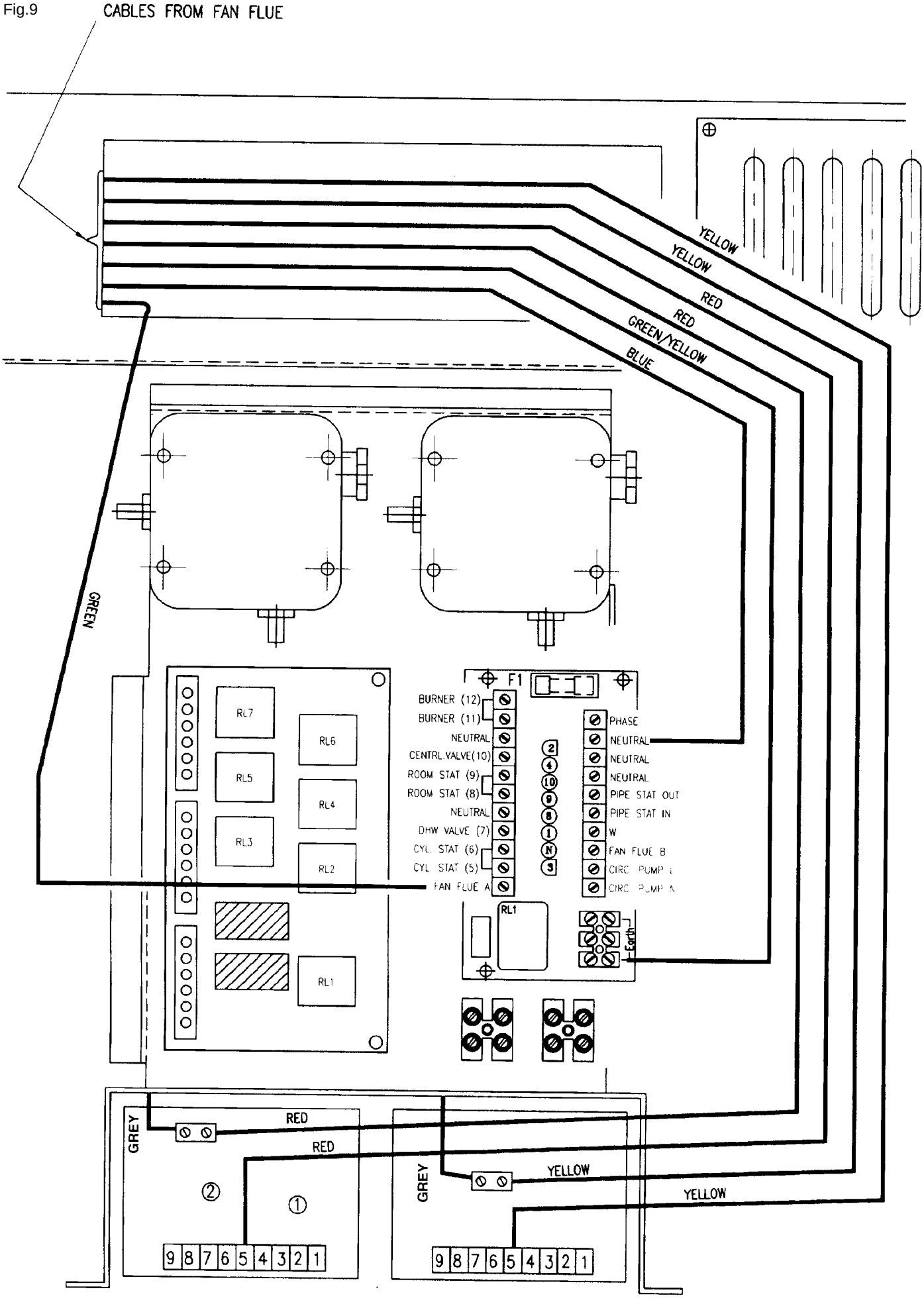
Fig.8



NOTE: The fan flue assembly is suitable for a 275mm (11”) wall and cannot be reduced, or extended if it is installed through a wall less than 275mm (11”) the terminal will protrude accordingly and must have fitted a suitable terminal guard.

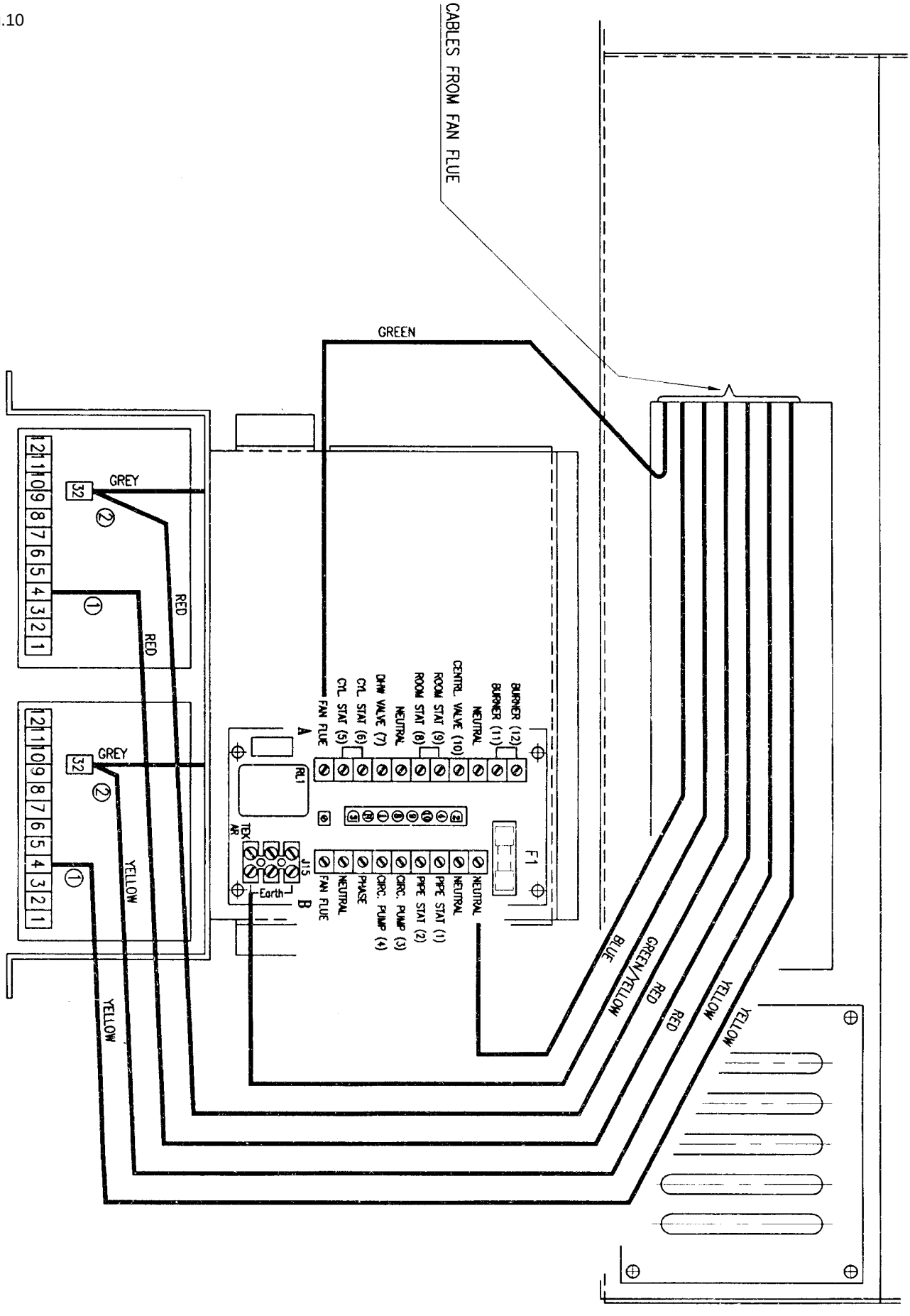
BRANDON FAN FLUE GAS WIRING DIAGRAM (SATRONIC)

Fig.9



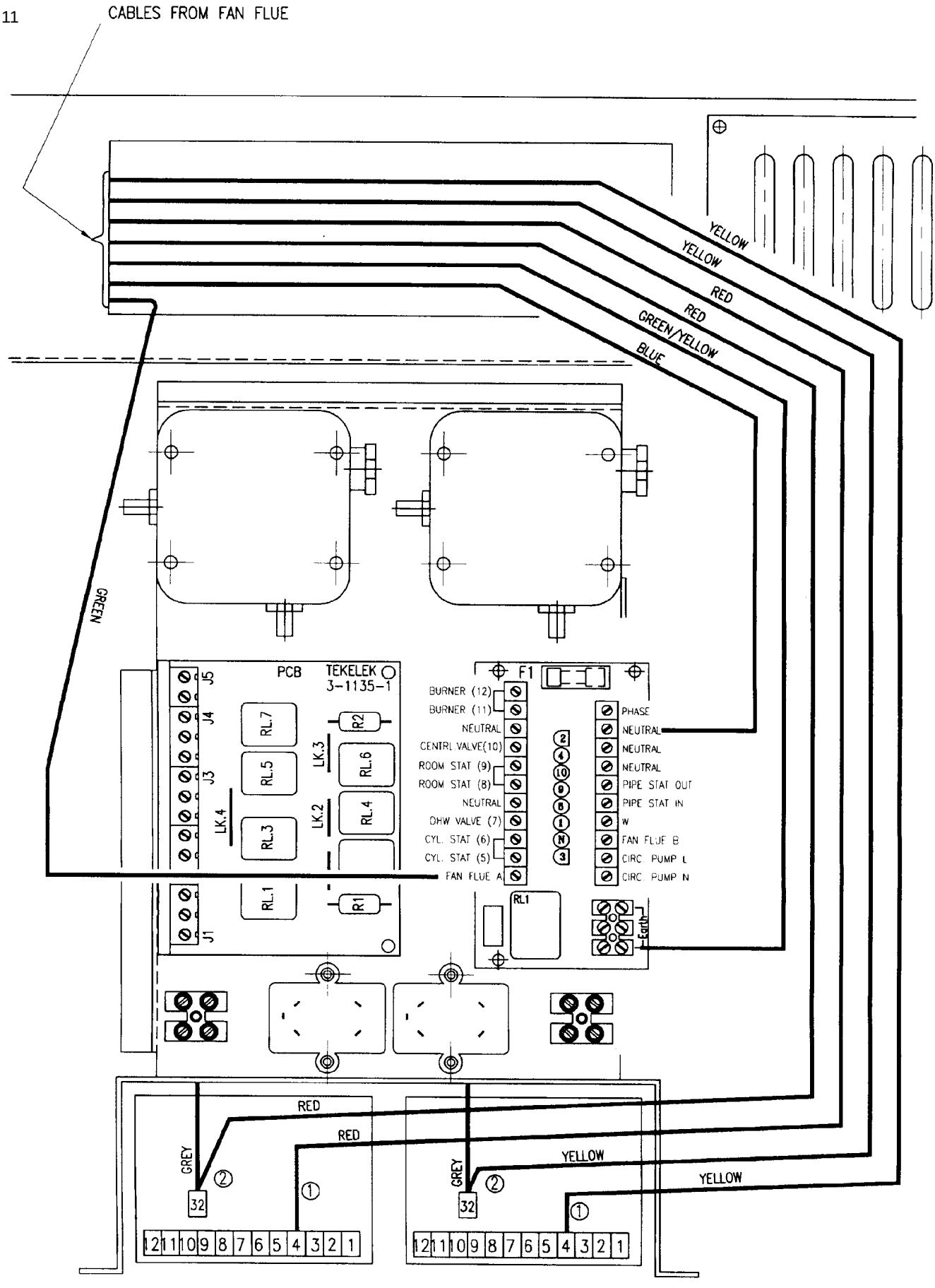
BRANDON FAN FLUE OIL WIRING DIAGRAM

Fig.10



BRANDON FAN FLUE GAS WIRING DIAGRAM (Landis & Gyr)

Fig.11



Waterford Stanley
Bilberry, Waterford, Ireland.
Telephone: (051) 302300
Facsimile: (051) 302375

STANLEY
TURNING YOUR HOUSE INTO A HOME