

Taurus

Air transfer fan system

Installation guide



IMPORTANT:

INSTALLER, PLEASE LEAVE THESE INSTRUCTIONS WITH THE UNIT UPON COMPLETION

This document contains important information on the Taurus duct system, its components, installation procedure and wiring, as well as explaining how the system works in a normal environment and how to operate it for best performance.



**PLEASE READ THIS MANUAL THOROUGHLY
FAILURE TO DO SO MAY RESULT IN AN EXTREME FIRE HAZARD**

- All components used for the ducting system must be NON-COMBUSTIBLE
- Standard gas ducted heating duct and registers are STRICTLY PROHIBITED

PLEASE NOTE:

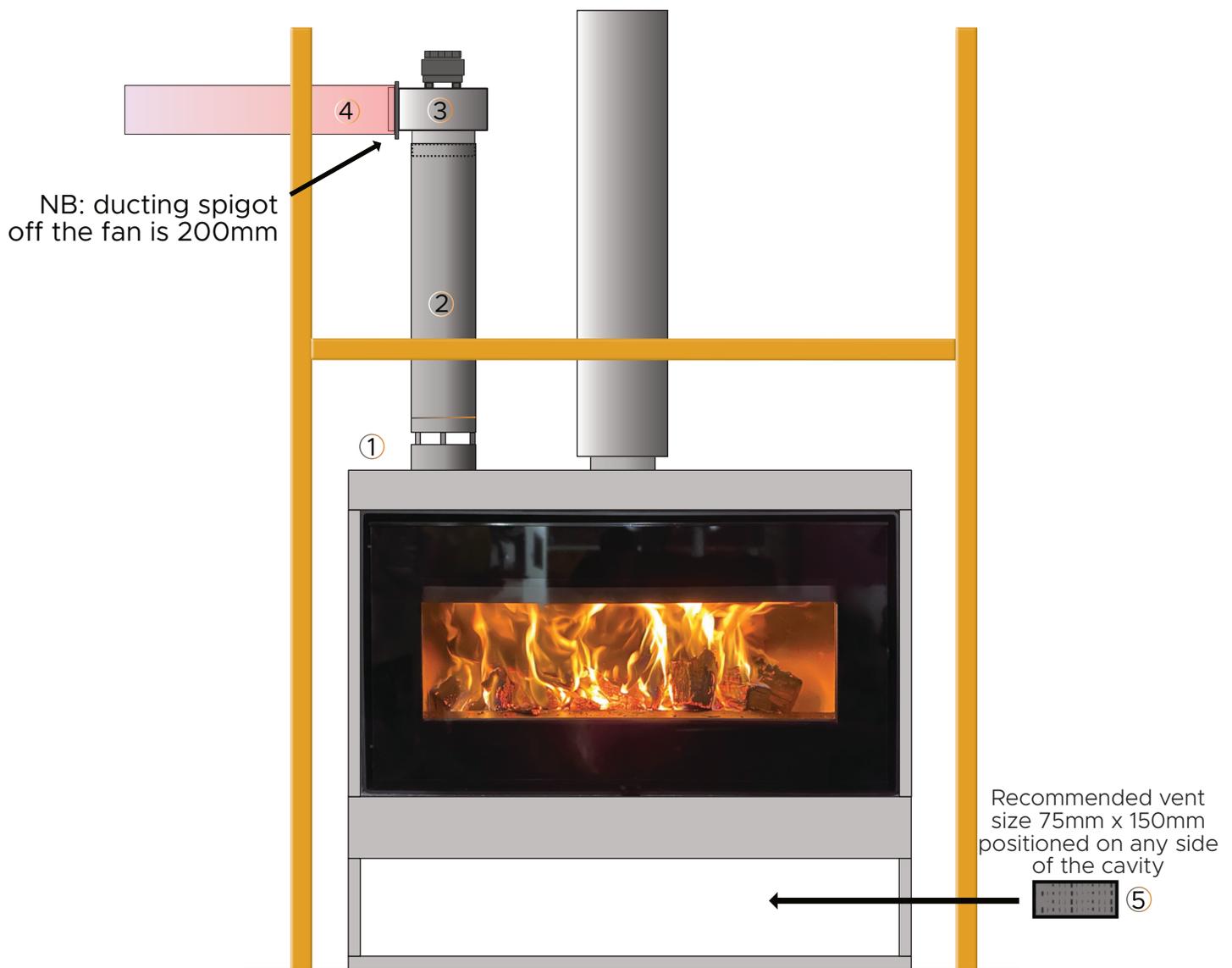
- The Power Duct Fan is tested as per Report ASFT16049, and cannot be used on any other appliance other than the TAURUS ZERO CLEARANCE INBUILT
- The TAURUS Duct System must only be installed by a licensed ducted heating specialist

Taurus air transfer fan system kit

The air transfer fan system is designed to be fitted exclusively to the zero clearance casing of the Taurus unit. A complete system comprises of the following;

1. Ventilated air transfer spigot - included. **FIG 3** (PAGE 4)
2. 6 inch rigid flue pipe (length to reach into roof cavity above fireplace) - order by 1 metre length
3. Centrifugal fan with power cables and fan controller - included
4. Ducting - minimum R1.0 Firebreak Plus 4 zero (or equivalent) - not included
5. Decorative cavity vent cover - not included

Cavity requires 1 vent located somewhere on the cavity below the firebox.



Ducting must be installed by a licensed professional to AS 4254.1-2012 'Ductwork or air-handling systems in buildings Flexible Duct' compliance.

The Taurus air transfer system uses a 280CFM variable speed fan designed to be connected to Firebreak Plus 4 zero (or equivalent) duct. This duct consists of aluminium inner and outer with R1.0 poly insulation lining.

Maximum recommended duct length - 15 meters from the fan motor to outlet.

Fan outlet connection size - 200mm. Can be split to 2x 150mm with branch take offs - refer to installer for appropriate location of BTO's for optimum and balanced air distribution.

Duct registers and BTO's should be aluminium or metal only.

Due to potential high temperatures at the outlet, plastic registers/downjets may sag

It is vitally important that ductwork is installed by an appropriately licensed professional and the ductwork installation complies to AS 4254.1-2012.

Electrical

The fan comes with approximately 7 metres of wire to a junction box, where two wires come from it. One for the power lead which will require a 240v plug base in the roof cavity above the fireplace within 3 metres of the fan location and the other for the speed control. This will need to be connected to the switch by licensed electrician. The speed controller can be mounted in a location suitable within the reach of the cable. Refer to **FIG 2** for wiring diagram.

The speed controller has a trim pot which will need to be set to the low point and tested to ensure the fan doesn't stall during a power interruption and restoration. Trim pot can also be used to overcome harmonic vibration symptoms

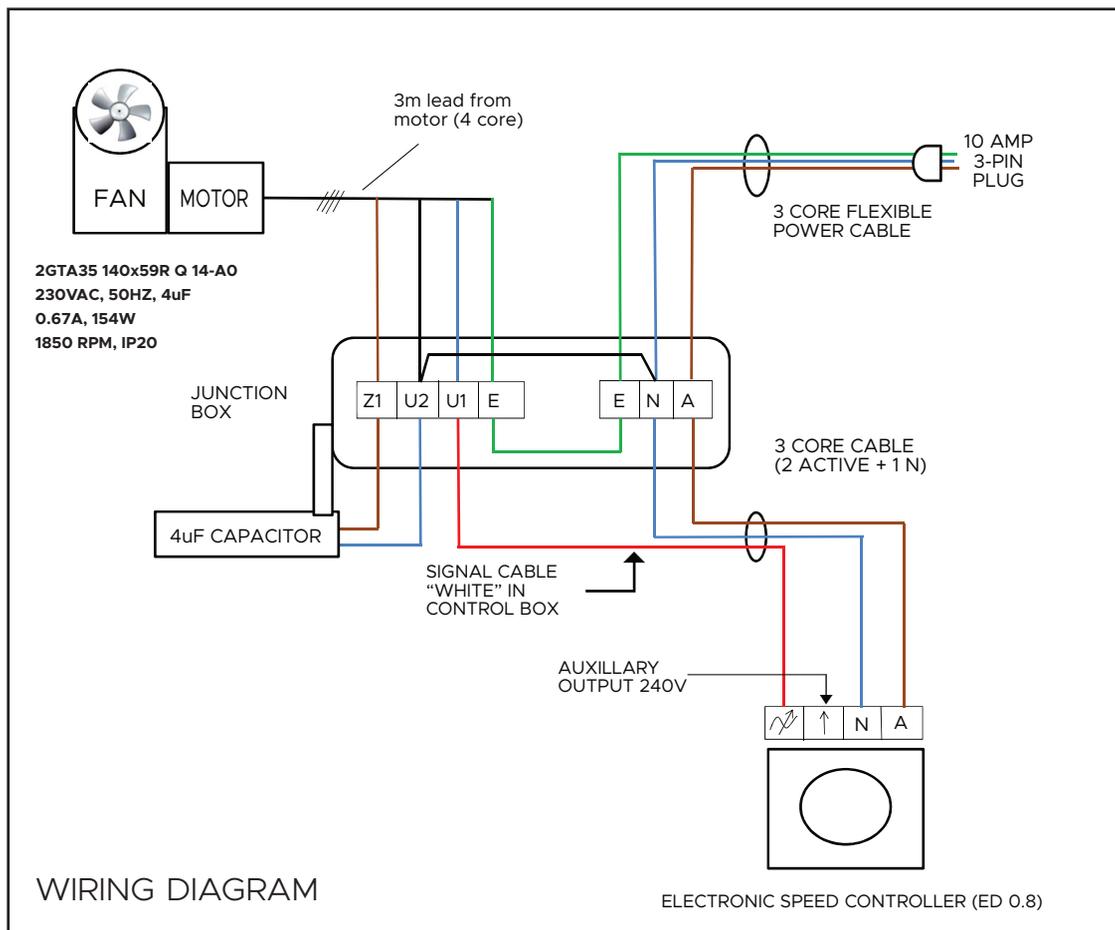


FIG 2

Installation steps

Steps 1 and 2 can be completed with the top of the zero clearance case removed and prior to firebox being fitted to zero clearance case.

Before installing air transfer spigot (**FIG 3**),

1. Remove the knock out point from the zero clearance case on the side it is being installed to reveal the firebox top.

NB: Failure to do this will result in reduced performance.

The series one units have circular discs on the top of the 6mm firebox. ***These must be left in place on the unit.***

2. Secure air transfer spigot with self tapping screws in 3 evenly spaced locations around the ring.

Direct connection without the ventilated slots will result in overheating of the ductwork and is a fire risk.

3. Join 6 inch pipe lengths to each other (use either pop rivets or self tapping screws) to the desired height and fit to the air transfer spigot.

4. Level and brace pipe with angle bracket to timber frame below intended fan location.

5. Mount fan to the top of the 6 inch pipe and secure with outlet pointing in desired direction (away from flue pipe).

6. Connect duct adhering to AS 4254.1-2012.

7. Roll out fan control cable to desired location. Secure with cable clips/ties to framing away from flue.

Connect cable to variable speed switch. Refer to FIG 3 wiring diagram.

8. Connect 3 pin 240V plug to 10 amp plug base.



FIG 3

Note:

Clearance required to the fan housing is 300mm in all directions. If blow in insulation is used in the roof cavity, the fan must be appropriately encased by an extra ventilated outer casing to ensure minimum clearances are met.

Operation tips

Avoid having the fan running during the first 30 mins of operation.

Avoid having the fan running when opening the firebox door.