

isodrive

ISOLATION DRIVE TECHNOLOGY

Installation Manual

This manual is for the installation of the motor used in the ISODRIVE systems after the canopy/range hood or bathroom extraction grill has been mounted on the wall or ceiling. (Refer to canopy/range hood or bathroom extraction unit installation manual)

Motor Features

- Universal mounting all position with IPX4 degree of weather protection
- Patented anti water intrusion system.
- Acoustic dome with super quiet, long vane, backward curved centrifugal fan.
- Airflow is dependant on installation and the ducting used.

Using a single 150mm flex duct run you should attain between 550m³/hr to 650m³/hr depending on the ducting installation.

The use of a smaller 125 pipe would result in a loss of airflow.

- Simple installation: - Mounts onto a 100mm PVC pipe for ultimate strength and allows for easy Dektite roof sealing.
- Industrial quality motor and fan made in Germany and rated at 40,000 hours.
- Motor is a high efficiency PSC type and rated at 62W, costing around the same as a 60W light globe to run.
- WARRANTY 10 YEARS return to manufacturer.

GENERAL NOTES ON INSTALLATION AND USE

This fan unit is designed to be installed using 100mm PVC pipe as the initial connection duct to the fan module, and is supplied with a 100mm PVC pipe to 150mm flexible duct bell-mouth adaptor. It is recommended that where a right angle bend is required before the inlet to the fan, that a PVC bend be used.

This fan is suitable for connection to multiple duct runs with a minimum inlet area of 11000 mm². Ducting runs should be more than 2 metres away from the unit and no more the 6 metres (check with supplier if longer duct length required). Where possible flexible ducting must be extended sufficiently to present a smooth air passage with bends at least the radii of twice the diameter of the duct.

Recommended Installation Distance.

650 motor: 2.5 metres; 1600 motor: 4 metres

Note: Installation closer than these distances will result in higher noise level.

Minimum mounting height. This fan unit is intended for mounting at a minimum height of 2.1 metres (measured to the lower part of the fan impeller) above a floor or the ground.

Avoidance of back flow. Care should be taken to avoid the back flow of gases into the room from the open flue of gas or other open fire appliances.

Please ensure that the ducting is tight and fastened down when installing.

This fan is not intended for use by young children or infant persons.

Replacement of supply cord. If the supply cord is damaged, it must be replaced by a service agent or suitably qualified person in order to avoid a hazard.

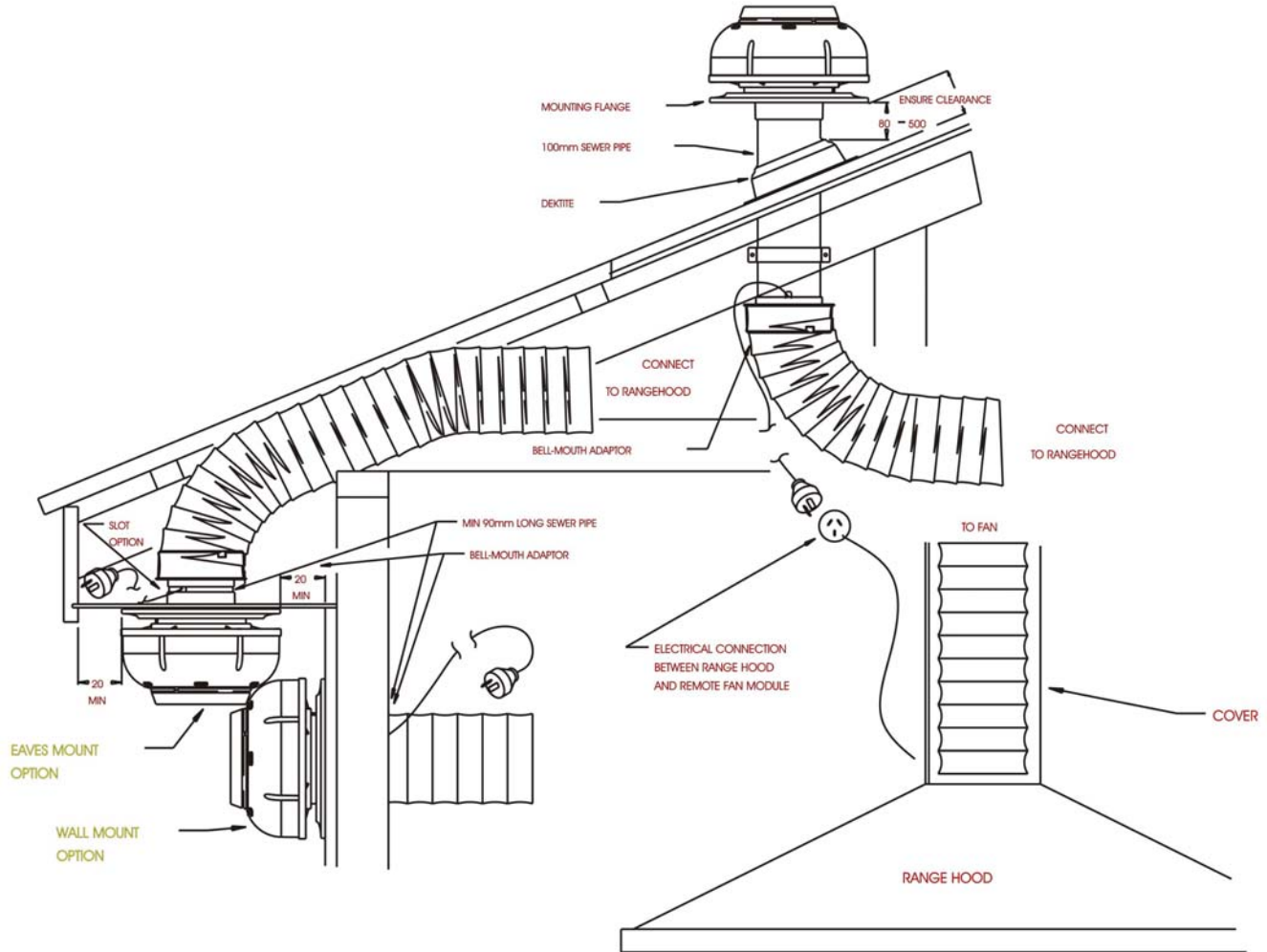


Figure 1.
The three options for mounting the unit.

WARNING: Any installation problem must be reported to Schweigen Service Manager (Master-Tech, Robert Rodriguez 0417 056 648), otherwise all warranties may become null and void.

ROOF INSTALLATION (Recommended: 650 motor - 2.5m; 1600 motor - 4m)
Mount the 100mm rigid PVC pipe securely to the beams, trusses or other appropriate structures as shown in figure 2.

The pipe should be mounted either vertical or perpendicular to the roof cladding with the roof penetration being sealed using a Dektite or other sealing device.

Do not permanently join the pipe sections until a slot has been cut for power cord exit and cord is passed out through pipe slot in final assembly as shown in figure 2.

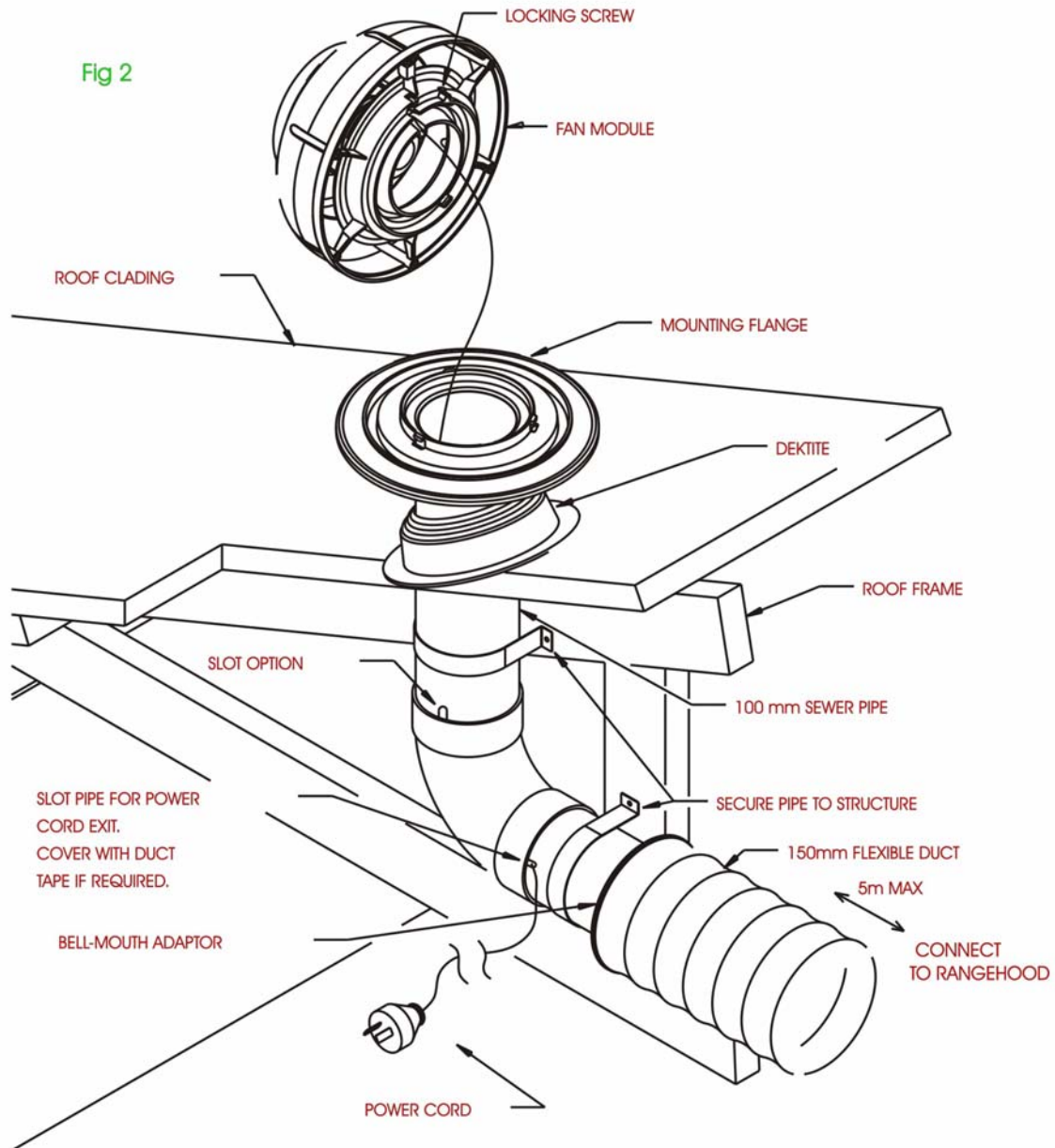
Ensure that the pipe protrudes at least 80mm past the top of the Dektite, checking that the mounting flange clears the roof cladding at upper edge as shown in figure 1.

Maximum recommended protrusion is 500mm.

Fit mounting flange, refer figure 1, to pipe using silicon sealant, then tape in position until sealant has set.

Pass power cord and plug through mounting flange and pipe, then out the slotted PVC pipe wall for connection to the female plug coming from the canopy/range hood or authorized switching mechanism in bathroom application.

Fit fan module to mounting flange by placing in position, rotating clockwise to engage bayonet fingers then secure by screwing in locking screw (while holding fan module firmly in the fully clockwise position).



EAVES INSTALLATION

After ensuring sufficient clearance exists for the mounting flange and ducting, refer figure 1, cut a circular hole 165 mm Ø, maintaining adequate clearances. The eaves sheeting should be reinforced.

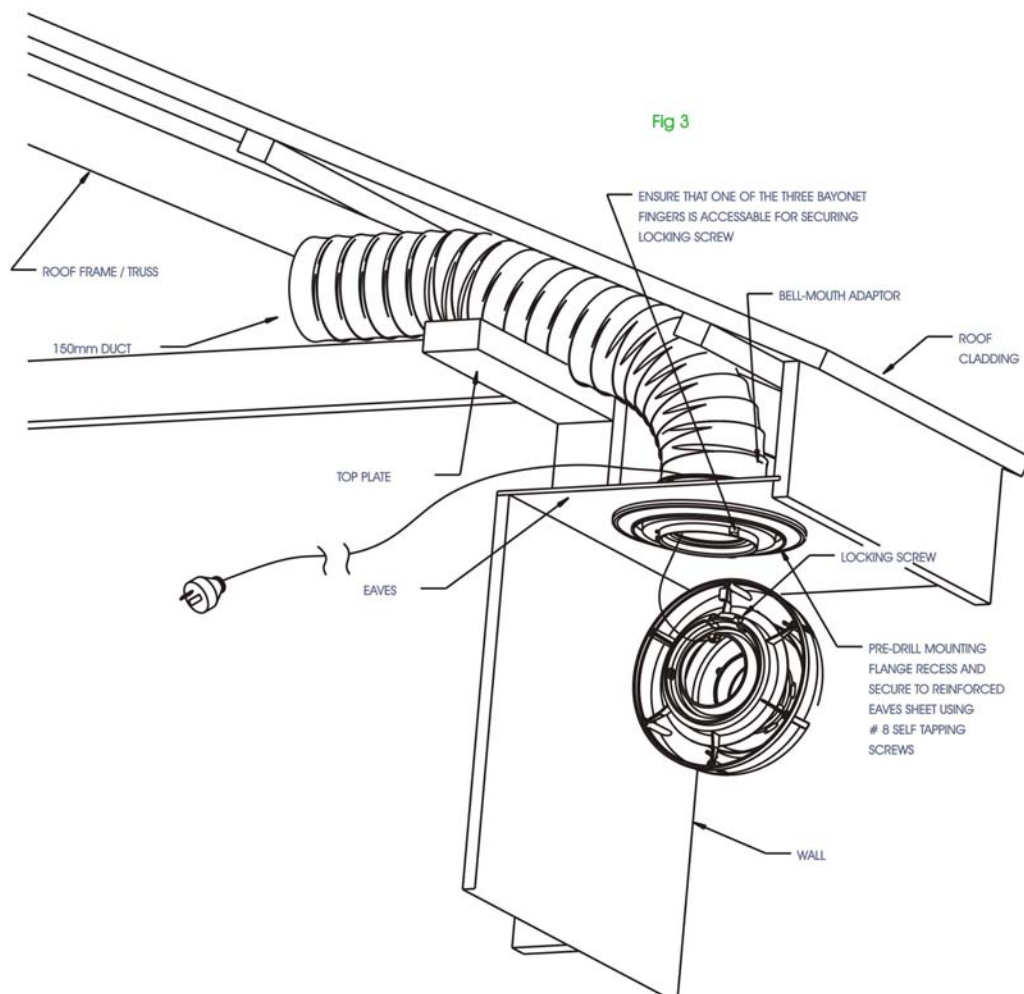
Pre-drill mounting flange recess. Refer figure 3.

Do not permanently join the pipe sections until a slot has been cut for power cord exit and cord is passed out through pipe slot in final assembly as shown in figure 2.

If access to the eaves space is restricted to cut the access hole, the power cord and plug must be passed through the mounting flange and out the slotted PVC pipe wall during assembly of the ducting components, before screwing the mounting flange to the eaves. Refer figure 3.

Pass power cord and plug through mounting flange and pipe, then out the slotted PVC pipe wall for connection to the female plug coming from the canopy/range hood or connection to switch for bathroom application.

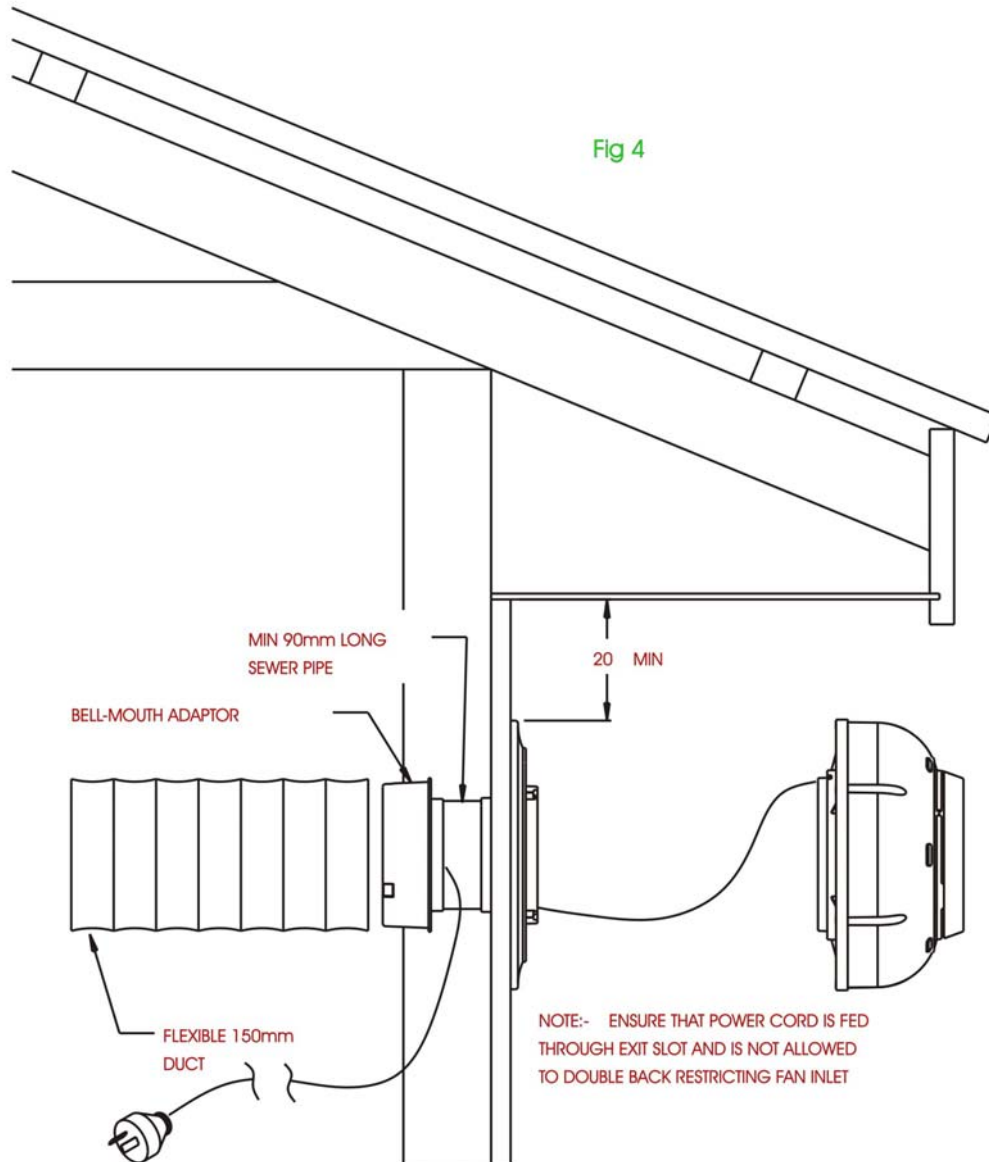
Fit fan module to mounting flange by placing in position, rotating clockwise to engage bayonet fingers then secure by screwing in locking screw (while holding fan module firmly in the fully clockwise position).



WALL INSTALLATION

The installation should be similar to eaves mounting if access to the inside is limited, but if unrestricted, a smaller 120mm duct hole may be used with the ducting being fitted after attachment of the fan module.

Refer to EAVES INSTALLATION above and figure 4

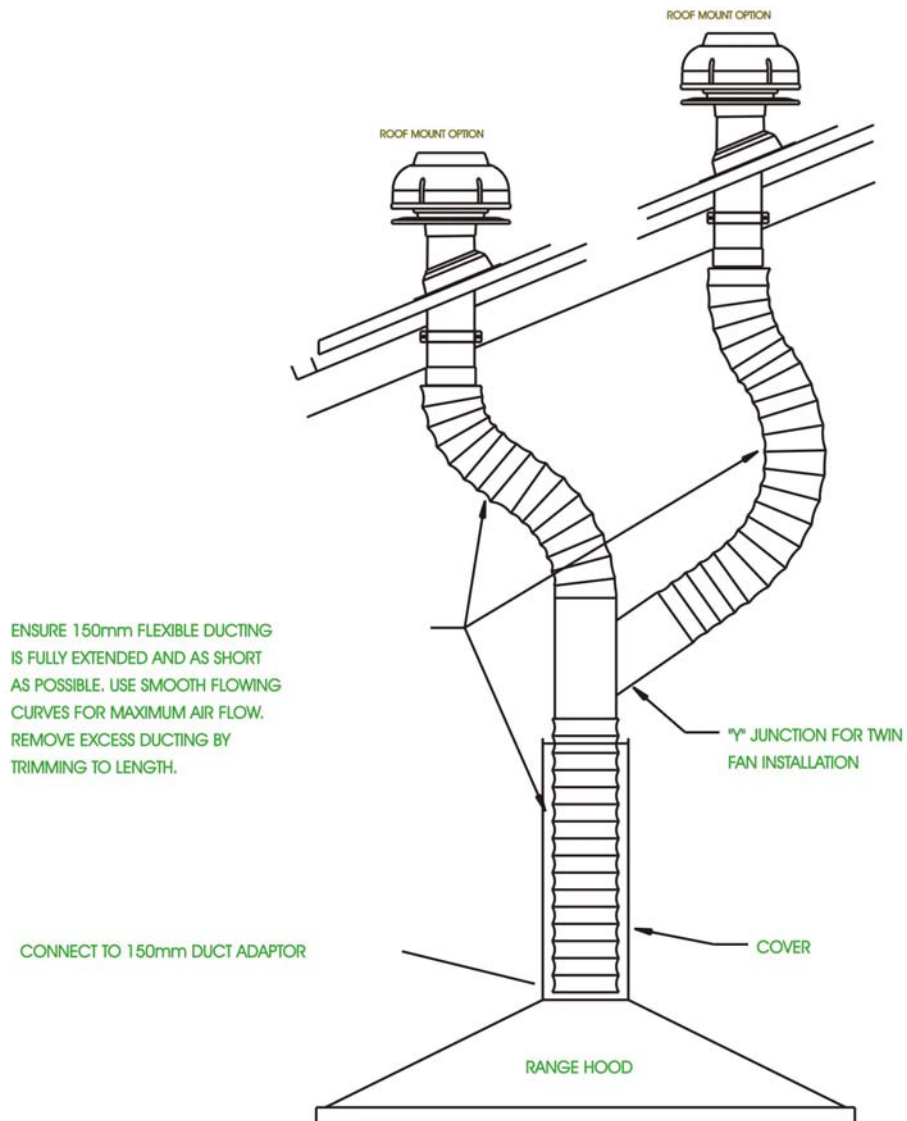


TWIN MOTOR INSTALLATION

Where two motors are to be used, follow the above methods for each motor then join into the 'Y' piece prior to joining ducting to the canopy/range hood. Refer figure 5.

The two motors can be wired by one of the following methods:

- Wired into one plug by an electrician
- A double adaptor plugged into the lead from the canopy/range hood
- A double GPO powered from the canopy.



IMPORTANT NOTICE

Please inspect this product upon receipt.
Any damage or defects **MUST** be reported within 24 hours otherwise, no claim
will be recognized.

**DO NOT INSTALL THIS APPLIANCE IF YOU FIND IT
DAMAGED!**

If this product is installed damaged, the supplier, nor retailer will be responsible for the costs
associated with the repair, replacement, removal & re-installation of the appliance.

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**All enquiries regarding these products should be forwarded to our
International Agents as listed.**

schweigen
DUCTED EXTRACTION SYSTEMS

Schweigen Pty. Ltd.
P.O. Box 84
Holmesglen, Vic. 3148
PH: (03) 8786 9909
Fax: (03) 8786 7840

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Oakleigh East. 3166
PH: (03) 9544 8868