



**LEEDZ**

**iNBUILT**

**GAS HEATER**

**OPERATIONS, MAINTENANCE  
&  
WARRANTY INFORMATION**

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## INTRODUCTION

Welcome and congratulations on purchasing your YUNCA LEEDZ INBUILT FLUED GAS HEATER. Please read the following information carefully before attempting to operate the heater and ensure all members of your household understand how this elegant and highly efficient heater functions.

**Please fill out and return the Warranty registration and installation checklist card promptly.**

These instructions should be stored in a convenient safe place for ready reference. If you have any questions regarding your heater please contact your YUNCA LEEDZ dealer.

The YUNCA LEEDZ INBUILT FLUED GAS HEATER is a listed gas-fired, conventionally vented, room heater tested by independent laboratories to New Zealand standards.

The installation of the YUNCA LEEDZ INBUILT FLUED GAS HEATER must be carried out by a suitably qualified person and comply with the current New Zealand installation code, NZS 5261:1996. (For Australian Installations, code AG 601)

**CAUTION:** This appliance must be vented to atmosphere via a sealed flue system. Installation and repair of the YUNCA LEEDZ INBUILT VENTED GAS HEATER should be done by a qualified person. The appliance should be serviced at least annually by a qualified service person. Control valve compartments, burners, fan, and air circulating passageways of the Leedz must be kept free from any lint and dust build up to ensure efficient and safe operation of the heater. Regular cleaning of the air intake filter will aid this.

**DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**

**DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**

**DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS OPERATIONAL.**

# INSTALLATION

## Considerations

The most desirable and beneficial location for a YUNCA LEEDS INBUILT HEATER is in the centre of a building, thereby allowing the most efficient use of the heat created.

The location of windows, doors and the traffic flow in the room where the heater is to be located, should all be considered.

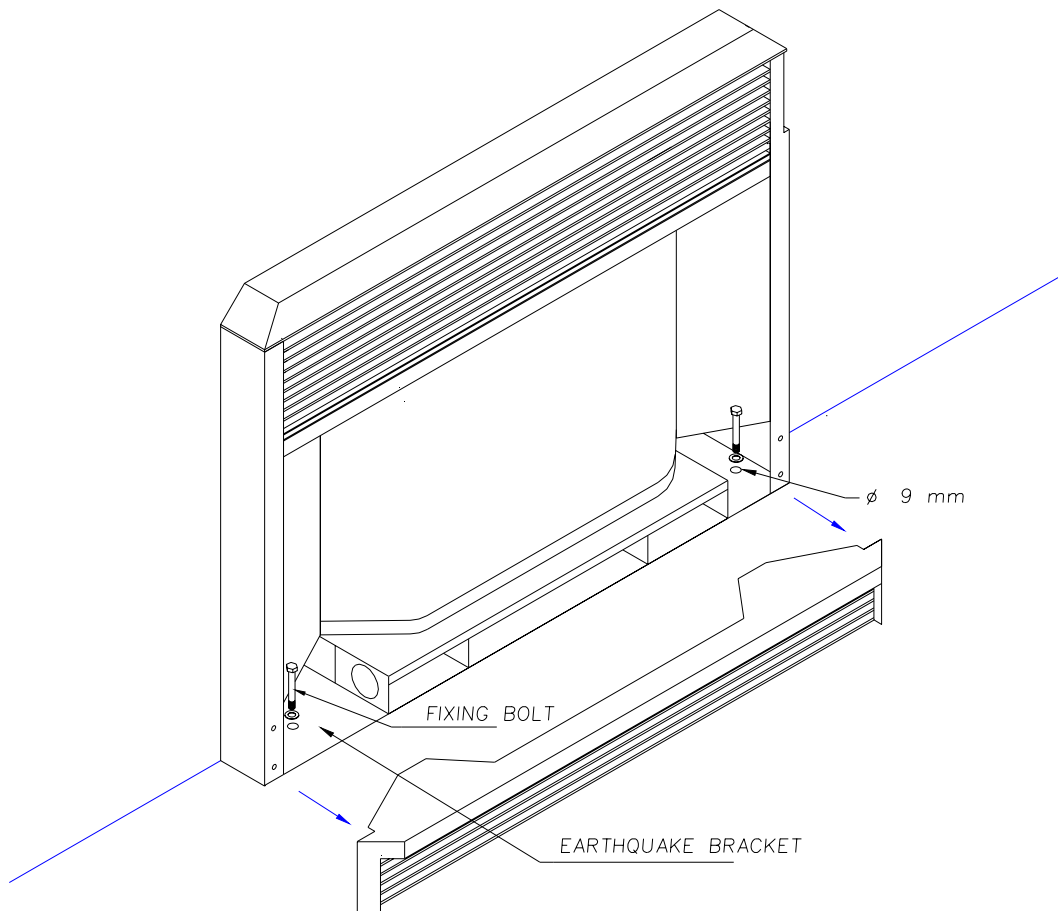
To obtain maximum heat distribution with any heater a ceiling fan can be fitted.

Another important consideration when installing the Yunca Leedz is availability of power supply to the fan and plumbing of gas line.

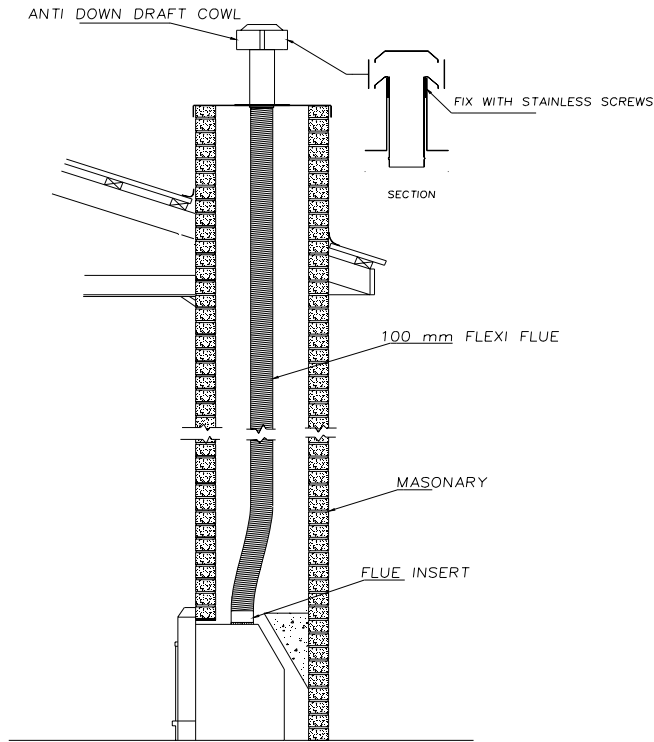
When the appropriate position has been selected the unit can be inserted into the prepared cavity and bolted to the floor to ensure that the unit remains secure in the event of an earthquake or similar. A cardboard template has been supplied with your heater and should be placed on the floor so holes can simply be drilled through the template.

If the heater is being attached to a concrete floor dyna bolts should be used, if the floor is wooden the bolts used should be long enough to go fully through the floorboards and fixed with nuts and washers from the underside.

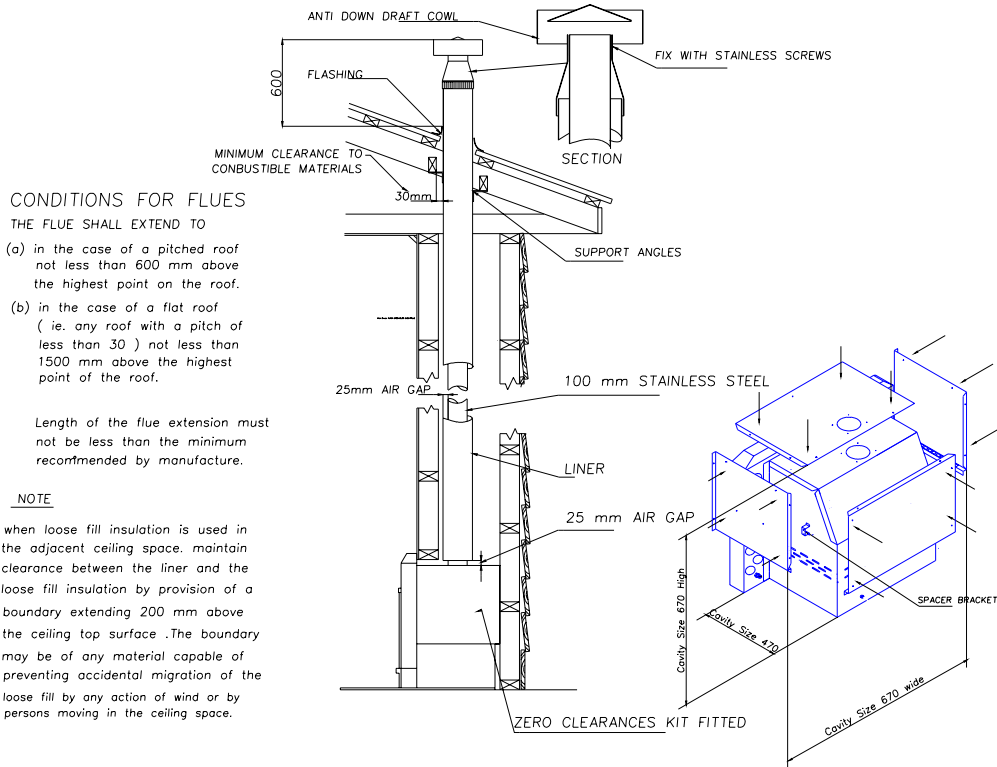
The earthquake brackets are located at the front corners of the heater and are exposed by removing the hearth.



**TYPICAL FLUE INSTALLATION  
BRICK CHIMNEY INSTALLATION**



**TYPICAL ZERO CLEARANCES FLUE INSTALLATION**



**CONDITIONS FOR FLUES  
THE FLUE SHALL EXTEND TO**

- (a) in the case of a pitched roof not less than 600 mm above the highest point on the roof.
- (b) in the case of a flat roof (ie. any roof with a pitch of less than 30°) not less than 1500 mm above the highest point of the roof.

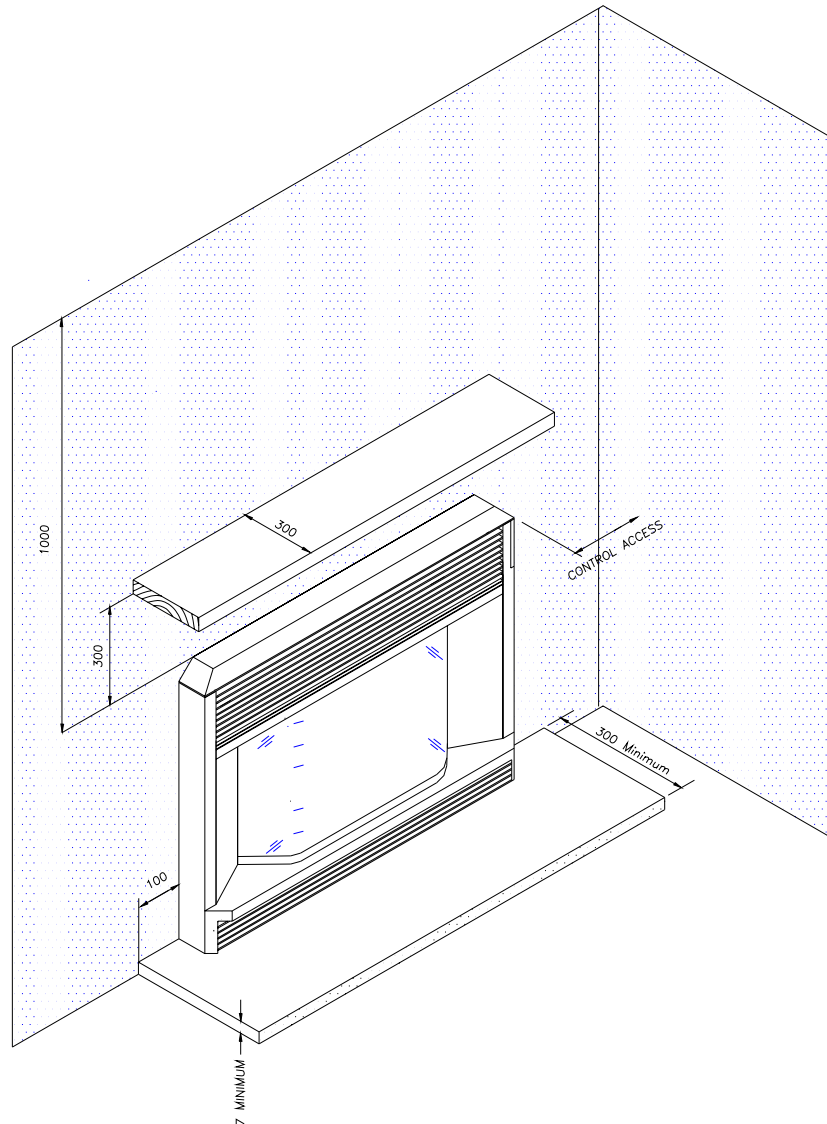
Length of the flue extension must not be less than the minimum recommended by manufacture.

**NOTE**

when loose fill insulation is used in the adjacent ceiling space, maintain clearance between the liner and the loose fill insulation by provision of a boundary extending 200 mm above the ceiling top surface. The boundary may be of any material capable of preventing accidental migration of the loose fill by any action of wind or by persons moving in the ceiling space.

## CLEARANCES

The YUNCA LEEDZ INBUILT FLUED GAS HEATER should be installed with clearances equal to or greater than those recommended below and comply with NZS 5261.



## CONNECTING THE FAN

The fan should be connected to the mains supply (240V 50Hz) via the 3m flex and 3pin plug provided.

The cord is stored and attached to the cowl for freighting.

When inserting the heater into the cavity, the cord should be attached to the side of the cowl using the wire tie provided to stop it being fouled under the heater.

Allowance may need to be made on one side of the cavity for the cord sit if it is to be connected into an external plug.

## CONNECTING THE HEATER TO A GAS SUPPLY.

Burn only the fuel for which the heater is equipped.

The YUNCA LEEDZ may be shipped from the factory equipped to burn either natural gas, L.P.G. or propane. The data plate affixed to the back of the heater specifies the gas type, which the heater is factory equipped for. Fuel Conversion Kits, No. LZ-A16 for natural gas, Kit No. LZ-A15 for L.P.G. or kit No. LZ-A17 for propane is available from your YUNCA agents.

See Appendix: A for instructions on field conversion from one gas to another. A suitably qualified person can only do this conversion.

### **Thermostat:**

The thermostat-sensing bulb is located at the bottom front right hand corner of the heater. It should be placed either inside or outside of the heater in such a place that it can accurately sense room temperature, whilst still being unobtrusive.

### **Gas connection:**

The gas inlet is located behind the left fascia panel. The inlet is a female 3/8" BSP access is shown in the following pages.

A separate gas isolation valve should be installed immediately up stream of the connection to the appliance.

If the heater is intended to run on natural gas, the supplied in line regulator should also be installed in the gas line.

**WARNING:** To stop pipe compounds entering the gas line, do not apply sealing compounds to the first two threads at the tip of any gas connection. All joints should be tested for leaks before operating the heater.

## GAS PRESSURE REQUIREMENTS

Correct gas pressure and the use of a properly sized gas supply line is essential for the safe and efficient performance of this appliance. The inlet and outlet pressures at the control must be tested on installation following the procedure over page.

Note: Improper gas pressure will affect heater performance flame colour or cause pilot malfunction.

### **Natural Gas:**

Minimum inlet pressure	1.25 KPa (5"w.g.)
Maximum inlet pressure	5.0 KPa (20"w.g.) With supplied in line regulator fitted.
Operating pressure	1.0kPa (4"w.g.)

### **L.P.G.**

Minimum inlet pressure	2.75 KPa (11"w.g.)
Maximum inlet pressure	3.5 KPa (14"w.g.)
Operating pressure	2.5 KPa (10"w.g.)

**CAUTION:** Do not use this heater if any part has been under water or exposed to moisture causing corrosion.

A Qualified service technician should inspect the heater and replace any part of the gas system that has been under water.

## PRESSURE TESTING:

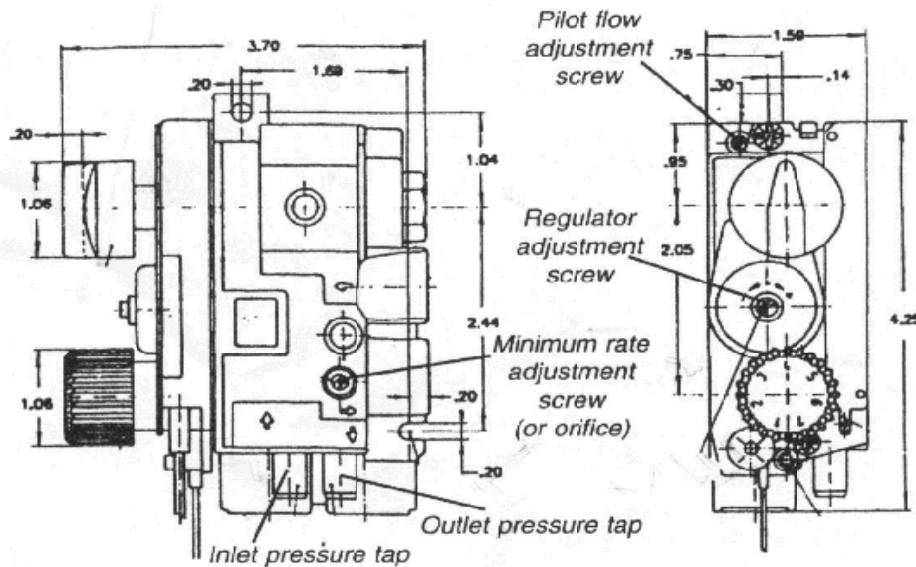
The pressures listed on the previous page can be tested using a manometer.

To attach manometer, first remove the top louver and side panels as shown in 'Removing the Front Door'.

This will expose the back of the control so manometer tubes can be attached to the pressure taps as shown in Fig 4.

The inlet pressure can be adjusted via in line regulators in the supply to the heater, and the outlet (**operating**) pressure by adjusting the valve's internal regulator. To locate the valve's regulator adjustment screw the plastic control cover must be removed from the front of the valve. This is done by removing the bottom screw and inserting a small flat head screwdriver into the slot at the top on the front of this cover and pulling the cover off.

Refer to fig. 4 below

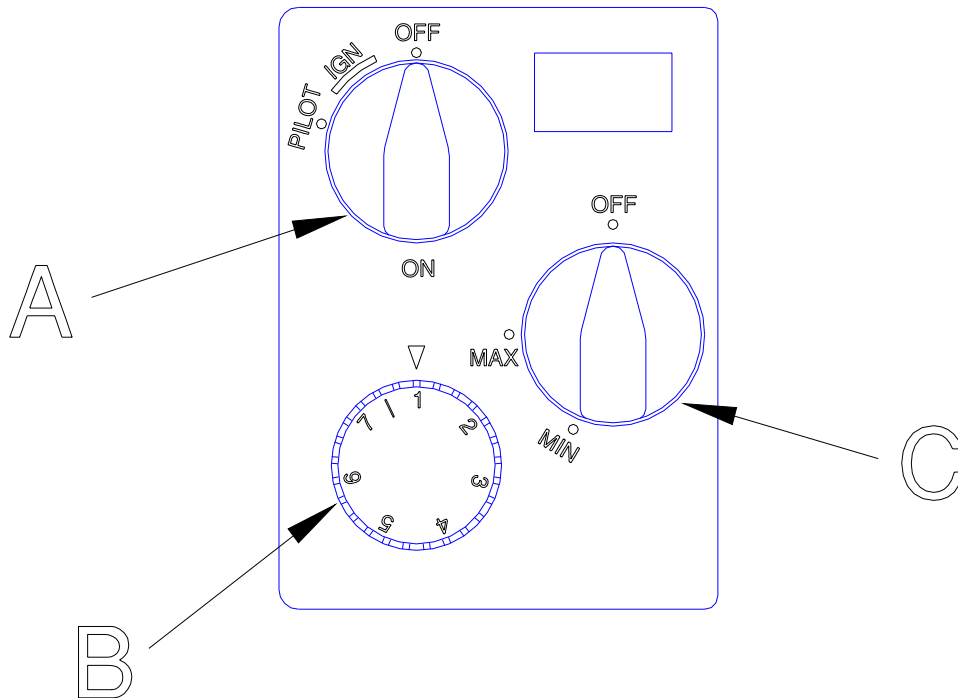




## OPERATION

### How To Light Your YUNCA LEEDZ

1. First read all the instructions for the heater.
2. Check that the control knob "A"(Fig 5) is in the off position, the thermostat knob "B" is turned to its Highest setting (7) and back burner control "C" should be in the off position.
3. Turn off electric power at the wall.
4. **Turn on the pilot light.** Turn the knob "A" slightly anti-clockwise to stop. Push the control knob "A" fully down and turn Anti-Clockwise from OFF to IGN, hold for 5-15 seconds. Continuing to hold down, turn the knob "A" further anti-clockwise to pilot mark. Observe pilot light by looking through front door. The pilot is located under the left-hand end of the front log set and is visible through the gap between the front two logs.
5. When the pilot is lit, continue pushing in knob for 20 seconds to allow safety thermocouple to heat



up. Release knob and check pilot flame has remained lit. If it goes out repeat steps 4 & 5.

6. **Turn on front burner only.** The control knob "A" can now be turned fully to the ON position to light the front burner
7. Turn electric fan power on and set to low speed.
8. After the front burner has been on for at about 3 minutes. Turn the back burner on, by pushing in knob "C" and turning Anti-Clockwise to maximum position.
9. Allow both burners to run for 30 minutes to bring the room up to temperature.

10. Turn the back burner off.
11. Adjust the thermostat down, until the front burner turns off. Note the thermostat number and turn up by ½ to 1½ a thermostat number till the front burner turns on.
12. **Leave the fan on.**

To further increase the room temperature follow the following steps:

- 1<sup>st</sup> Turn the fan on to high speed.
- 2<sup>nd</sup> Turn the thermostat up one number.
- 3<sup>rd</sup> Turn the secondary burner on to minimum.
- 4<sup>th</sup> Turn the secondary burner up to half on.
- 5<sup>th</sup> Turn the secondary burner up to maximum.

**Note:** Various combinations of the settings of knobs “B” and “C” will provide different heat settings and flame effects.

**The first few times that the heater is lit it should only be running for about twenty minutes. And then allowed to cool. This will eliminate damage to paints and reduce the smoke and odour caused by burning off of manufacturing oils etc.**

## **HOW TO TURN OFF THE HEATER.**

1. Turn the rear burner control, knob “C”, to the off position.
2. Turn off the fan and then electrical power at the wall.
3. Push in the pilot control knob “A” and turn it clockwise to off position.

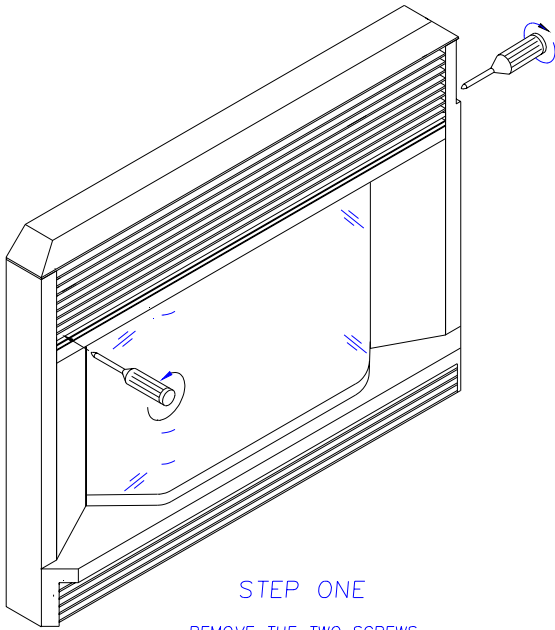
**Note:** the knob cannot be turned from “pilot” to “off” unless it is pushed in slightly.  
Do not force it.

## **MAINTENANCE**

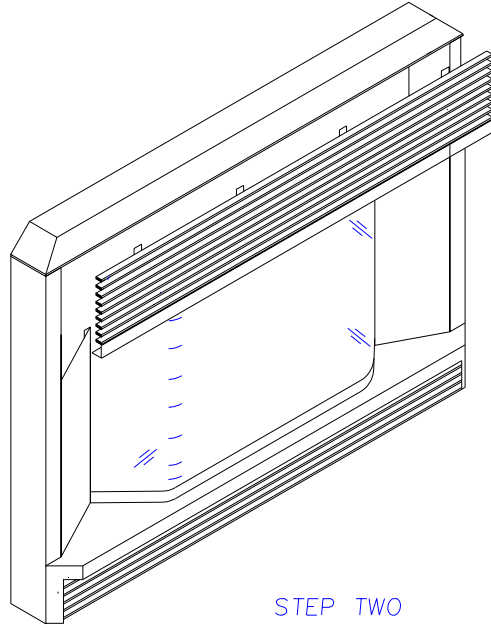
A qualified service person recommended by your YUNCA dealer should conduct an annual inspection and undertake any maintenance required on your LEEDZ. Its venting and installation must be checked to keep it running safely and efficiently. The following procedures should be performed only by a qualified service person. The gas supply and electrical power should be isolated whenever any maintenance procedures are undertaken.

**Note: the front glass can only be removed after the heater has been turned off for long enough that the door has cooled to touching temperature.**

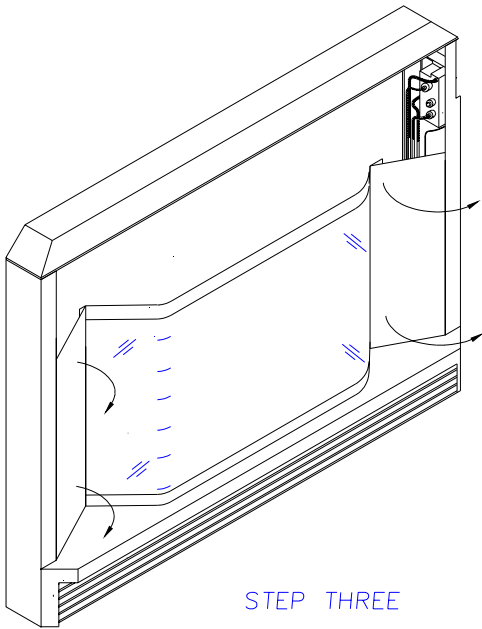
# REMOVING THE FRONT DOOR.



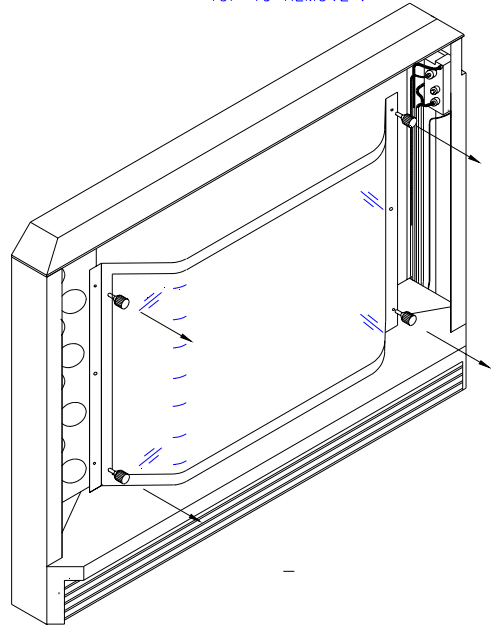
STEP ONE  
REMOVE THE TWO SCREWS  
HOLDING THE TOP LOUVER IN POSITION .



STEP TWO  
SWING TOP LOUVER FROM  
TOP TO REMOVE .



STEP THREE  
SWING OUT SIDE PANELS ,THEY  
ARE HELD ON BY SPRING CLIPS.



STEP FOUR  
UNSCREW THUMB SCREWS  
AND REMOVE GLASS .

## **REMOVING THE GLASS FOR REPLACEMENT.**

1. Remove the front door as described on previous page, and place front down on a soft surface.
3. Remove the bottom glass retainer by taking out the four screws along the base of the door
4. To remove the front glasses place one hand under it and lift it up and out of the doorframe.
5. New glass with gasket attached can be ordered through your YUNCA LEEDZ agent.  
**Note:** Only the genuine Yunca glass may be fitted.
6. Place replacement glass in position in the reverse order of removal.
7. Replace bottom glass retainer with screws.

## **REPLACING THE GASKET.**

The YUNCA LEEDZ has a 10mm fibreglass gasket surrounding the front door. Should it ever need replacement, use only the replacement gasket that is available from your YUNCA dealer. The reference number for this is listed in the parts list.

Procedure.

1. Remove the front door as described above.
2. Remove the existing gasket and clean its channel with a brush.
3. Lay a thin bed of gasket cement around the length of the channel.
4. Lay the gasket in the channel with the join half way along the bottom.
5. Replace the door carefully to avoid dislodging the gasket.

## **CLEANING THE GLASS**

The glass may be cleaned with ordinary household glass cleaner and a soft cloth or paper towel.  
**Note:** Never clean the glass when it is hot. Do not use abrasive cleaners on the Glass.

## **CLEANING THE LOG SET AND FIREBOX.**

During the annual inspection and maintenance appointment, the service person should clean dust, lint and any light soot accumulation from the logs and the firebox area. An extra soft brush should be used on the logs, as they are extremely fragile. If at any time the logs cannot be removed or installed without force, the cause must be found. The logs must never be forced.

Procedure:

1. Remove front door as described previously
2. Remove the front log set from the firebox by lifting it up and out. Brush it gently over a newspaper and carefully place it out of the way.
3. Remove the backlog and clean it in the same way.
4. The bark tray can be removed by lifting and pulling it straight out, with the bark still on it.
5. The bark consists of a mixture of vermiculite and composite chips and it can be dusted by sieving. If needed a replacement bag can be ordered through your YUNCA dealer.  
(See parts list for reference number)
6. With firebox empty a vacuum cleaner can be used to remove any visible dust and lint from within the firebox area.
7. Replace logs in the reverse order of removal.
8. Replace the bark tray and redistribute the bark.
9. Replace and relatch the front door and close the side panels.

## FAULT FINDING GUIDE

SYMPTOM	PROBLEM	CORRECTIVE
Pilot Will Not Light.	<p>No spark at pilot burner.</p> <p>Spark gap is incorrect.</p> <p>No gas at pilot burner</p> <p>No Supply Gas.</p>	<p>Check connection between electrode in pilot assembly and lead from control. Press connection hard together.</p> <p>Replace the pilot assembly if ceramic insulator is cracked or broken</p> <p>Spark gap should be 3-4mm between the electrode tip and the pilot flame hood. The height of the electrode can be adjusted with the brass holding nut on its base</p> <p>Check that isolating valves are turned on and gas is available.</p> <p>Check pilot hood for blockage</p> <p>Remove pilot jet and blow clean. The jet is located inside the base of the pilot burner and is removed by disconnecting the gas to the pilot and removing the brass nut from the base of the burner. Jet will fall out.</p> <p>Check for any obstructions in the gas line that may cause low pressure or restrict flow.</p> <p>Purge gas lines.</p> <p>L.P.G. -- Refill tank</p> <p>Natural -- Check with gas supplier.</p>

<p>Soot is being deposited on glass or logs.</p>	<p>There is insufficient secondary air in the combustion chamber.</p> <p>The logs are not properly positioned.</p> <p>Incorrect gas pressures.</p>	<p>Check the back of the heater for blockages around the air intake slots.</p> <p>Check that the clearances around the heater match those stated in this manual.</p> <p>Ensure that the front log set is sitting flat with no bark chips under it and that the locating pins are in their holes.</p> <p>Check that the backlog is sitting on its brackets.</p> <p>Check and set gas pressure to manufacturers specifications.</p>
<p>Front burner extinguishing.</p>	<p>Thermostat not correctly sensing the room temperature.</p> <p>Thermostat knob set to low.</p>	<p>Position the thermostat bulb at back of the heater on fan inlet duct.</p> <p>Adjust the Thermostat knob up to give desired room temperature.</p>
<p>Main burners extinguishing.</p>	<p>Flue down draughting.</p> <p>Flue way blocked</p> <p>Pilot flame is not large enough.</p> <p>Severe down draught.</p>	<p>A vacuum in the room causes this. Turn off heater. Turn off all air conditioners, expelair fans, other heaters etc. Open doors and windows to allow pressure to equalise. Relight heater. Close doors and windows but not completely. Remove blockage.</p> <p>Check that pilot assembly is correctly mounted and that the pilot burner flame hood directs the pilot flame over both burners and the thermocouple.</p> <p>If the flame pattern is disturbed during extreme winds then ensure a recommended flue cowl has been fitted and is still in place.</p>

<p>Pilot will not stay lit</p>	<p>Incorrect operation.</p> <p>Weak or improperly located pilot flame.</p> <p>Thermocouple not properly connected.</p> <p>Defective thermocouple.</p> <p>Faulty control valve.</p>	<p>Operator not following correct lighting procedure, see lighting instructions.</p> <p>Adjust the height of the thermocouple (Using the brass nut at its base) The flame should engulf the top 8mm of the thermocouple.</p> <p>Check back of main control where thermocouples copper tube enters the control. Tighten brass-collar nut.</p> <p>Replace thermocouple A new thermocouple may be ordered through your YUNCA agent. (See parts list.)</p> <p>A replacement may be fitted by a suitably qualified service person. (See parts list).</p>
<p>Pilot burning no gas to burners</p>	<p>Burner injectors may be blocked.</p> <p>Faulty control</p>	<p>Disconnect gas supply at burners and unscrew brass injectors from end of burner. Use compressed air to clean out orifice.</p> <p>Control requires replacement.</p>
<p>Back burner stays on when switched to off position.</p>	<p>Build up on the control valve.</p>	<p>Disassemble the control valve by removing the two screws below the cover. Extract the control valve note the position. Clean the control valve clean and re-assemble. Test operation.</p>



## APPENDIX A:

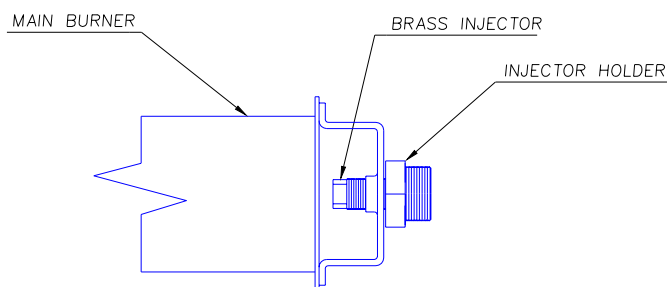
### GAS TYPE CONVERSION

If at any stage the heater is required to run on a gas other than that which it was factory equipped a conversion kit can be ordered through your YUNCA dealer, see parts list for reference number in Appendix.

**The conversion should be done by a suitably qualified person.**

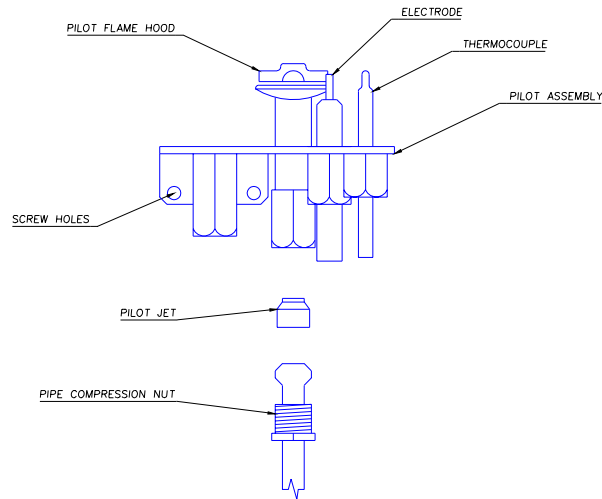
#### Steps

1. Isolate the heater from the gas supply
2. Remove the front door as described previously. Refer Maintenance – Removal of Door
3. Remove the front logset and bark tray, remove the back log.
4. Disconnect the supply pipes from the burners.
5. The burner module can be unscrewed, it is held in place by two screws located between the burners.
6. Undo the screw on the left hand burner support bracket.
7. Lifting the burner module. The two screws that attach the pilot assembly are now accessible under the front burner, remove these screws.
8. It is now possible to remove the entire main burner module.
9. **Burner Injector Change.** Unscrew the brass injector holders from the burner frame.
10. The brass injectors are threaded into the end of the injector holders, they can be removed with a 7mm spanner, and the new injectors fitted. See Appendix – Injector Size. An approved sealing compound should also be used. Replace the Brass injector holders on to the burner frame.



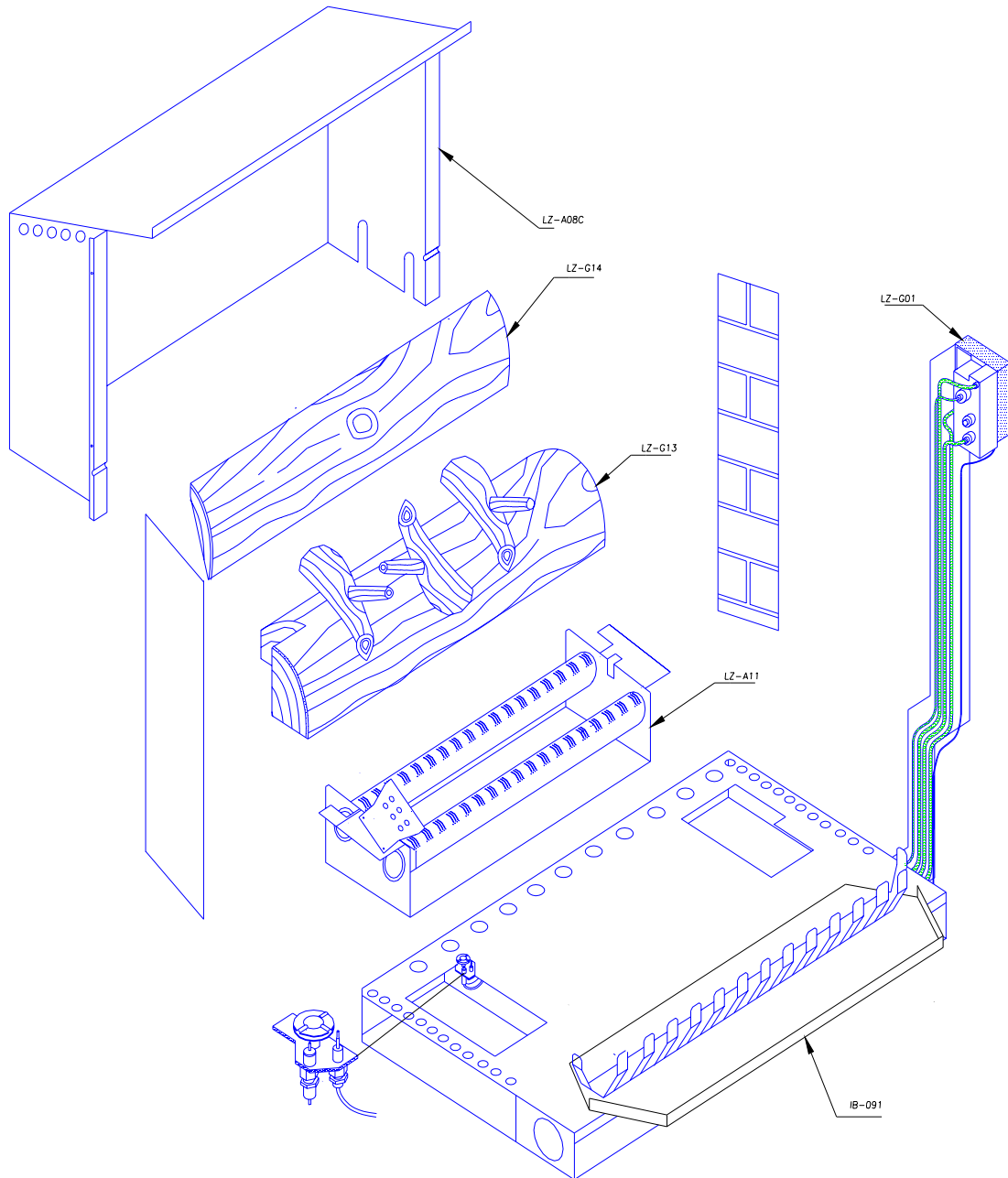
11. **Pilot Jet Change.** Disconnect the gas supply pipe to the pilot burner.
12. Disconnect Spark Electrode and then Thermocouple

13. The pilot jet can be now removed. Insert new pilot jet from conversion kit ensuring the chamfered end is facing upwards.

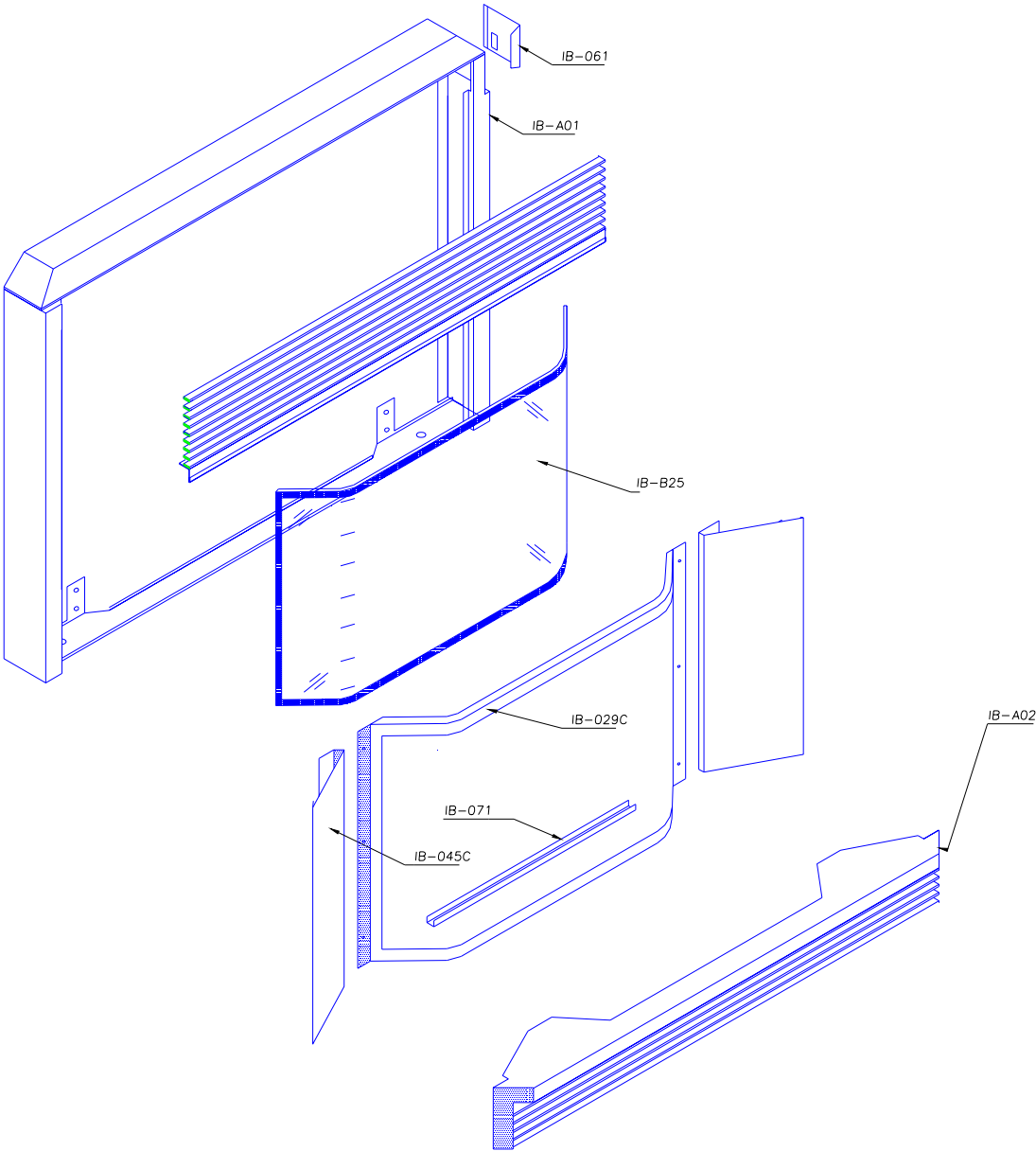


14. **Back Burner Controller outlet Change.** When changing from N.G. to LPG, the in line restrictor, located in the rear burner pipe where it attaches to the control, must be removed. When changing from LPG to NG, this restrictor (Cone facing Out) must be placed in rear burner pipe at the control.
15. **Front Burner Controller outlet Change.** The brass reducer that couples the front burner pipe to the control must also be changed and the reducer supplied with kit fitted. (LPG 8mm Bore/ Natural 1.7 mm Bore).
16. **Inline Regulator.**  
From Natural Gas: Remove the Inline regulator that's before the Control Valve.  
To Natural Gas: Install the Inline regulator and pipe before the Control Valve.
17. Reconnect the Gas pipes and resemble main burner module.
18. *Test all connections for gas tightness* and replace logs and door.
19. Update or replace appliance data plate for new specifications and Apply Correct Gas sticker.

**APPENDIX B:**  
LEEDZ INBUILT COMBUSTION COMPONENTS



# LEEDZ INBUILT REPLACEMENT PARTS



**PARTS LIST:**

<b>PART NO.</b>	<b>PART NAME</b>
LZ-G01	Mertik gas control
LZ-A11	Burner module
LZ-G03	Pilot assembly
LZ-G04	Electrode
LZ-G05	Thermocouple
LZ-G07	Pilot pipe assembly
LZ-G08	Front burner pipe assembly
LZ-G09	Rear burner pipe assembly
LZ-G10	Supply line pipe assembly
LZ-G13	Front log assembly
LZ-G14	Back log assembly
LZ-G17	Bag of coals
LZ-B11	Door gasket
LZ-B25	Front glass
LZ-B26	Side glass
LZ-A02	Booster fan assembly
LZ-B34	Rocker switch
LZ-A12	Right side panel (state colour)
LZ-A13	Left side panel (state colour)
LZ-A14	Top panel (state colour)
LZ-101	Main door (state colour)
LZ-A15	L.P.G. conversion kit
LZ-A16	Natural gas conversion kit
LZ-A17	Propane conversion kit

**APPENDIX C****INJECTOR SIZE:**

<b>GAS TYPE</b>	<b>FRONT BURNER</b>	<b>BACK BURNER</b>
NATURAL	2.3mm diameter	2.8mm diameter
L.P.G.	1.15mm diameter	1.15mm diameter
PROPANE	1.25mm diameter	1.25mm diameter

## WARRANTY:

The Yunca Leedz Inbuilt Gas Heater is covered by a limited Five Year Warranty against defects in materials and workmanship.

All gas and electrical components including control, burners, pilot assembly, tubing, fan and switchers are warranted for a period of one year from date of purchase.

Glass and surface coatings are also warranted for one year.

Damage caused by neglect, improper use, acts of god, theft, or any other indirect, incidental cause are not covered by this warranty.

This warranty is void if the recommended service schedule is not implemented as suggested in this manual and carried out by a suitably qualified person.

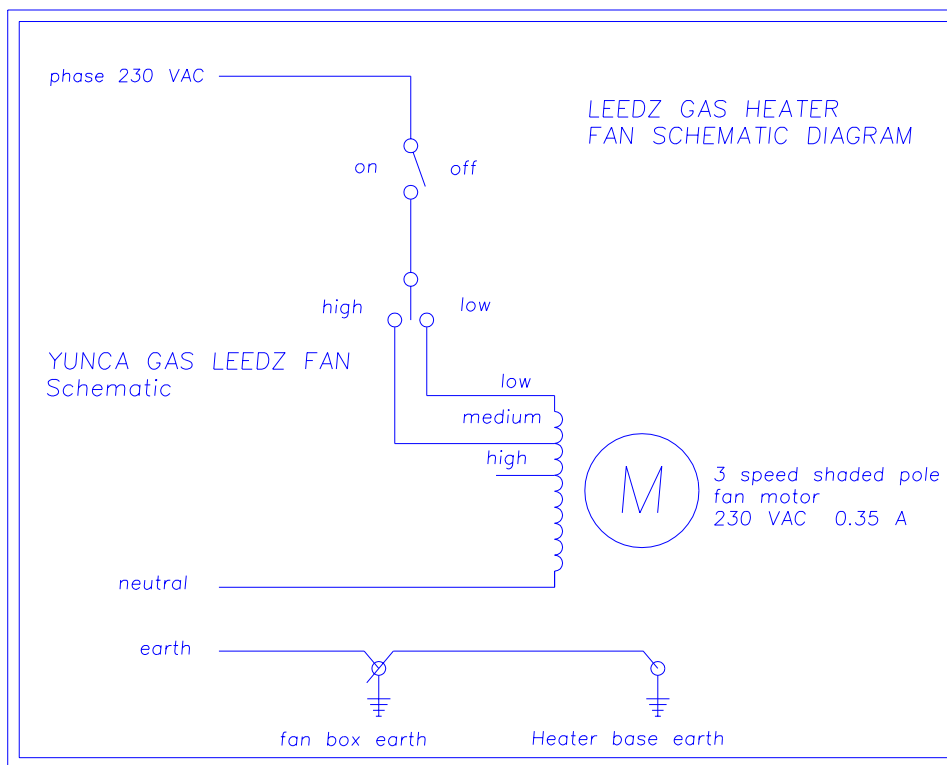
### Limitations of Liabilities:

Yunca Heating hereby waives any liability for incidental and consequential damage directly or indirectly sustained, or for any loss caused by the application of this product not in accordance with the current printed instructions.

Our liability is expressly limited to replacement of defective goods as per above warranty. Any claim shall be deemed waived unless made in writing to Yunca within 30 days from the date that it was or reasonably should have been discovered.

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## APPENDIX E: Fan Wiring Diagram:



**CUSTOMER COPY**  
**YUNCA LEEDZ IB WARRANTY REGISTRATION:**

**Serial No.** \_\_\_\_\_ **Gas Type.** \_\_\_\_\_ **Purchase Date** \_\_\_\_\_

Purchaser's Name. \_\_\_\_\_

Purchaser's Address. \_\_\_\_\_

City. \_\_\_\_\_ Postcode. \_\_\_\_\_ Telephone \_\_\_\_\_

Where Purchased. \_\_\_\_\_

**Installed By.** \_\_\_\_\_ **Date.** \_\_\_\_\_

Yunca Gas Dunedin  
PO Box 500  
DUNEDIN  
Telephone (03) 488 4342  
Email: yuncagas@southnet.co.nz

Cut along here...

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**This section must be returned within 10 days of purchase.**

**YUNCA LEEDZ IB WARRANTY REGISTRATION:**

**Serial No.** \_\_\_\_\_ **Gas Type.** \_\_\_\_\_ **Purchase Date** \_\_\_\_\_

Purchaser's Name. \_\_\_\_\_

Purchaser's Address. \_\_\_\_\_

City. \_\_\_\_\_ Postcode. \_\_\_\_\_ Telephone \_\_\_\_\_

Where Purchased. \_\_\_\_\_

**Installed By.** \_\_\_\_\_ **Date.** \_\_\_\_\_

Return to: Yunca Heating  
PO Box 932  
INVERCARGILL