

# **Rinnai**

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## **SERVICE MANUAL**

**SYMMETRY -  
RDV-3610ETR  
RDV-3611ETR**

### **INBUILT GAS LOG FLAME FIRE**





All Rinnai products are certified by the Australian Gas Association as compliant to relevant Australian Standards.



Rinnai Australia Head Office is certified as complying with ISO 9001 by SAI Global.



Rinnai New Zealand has been certified to ISO 9001 Quality Assurance by Telarc.



The Regulatory Compliance Mark (RCM) indicates compliance with electrical safety regulations in Australia & New Zealand  
Rinnai Australia Supplier Code 5109

All Rinnai products carry the “C Tick” symbol. This signifies compliance with the Electromagnetic Compatibility (EMC) requirements of the Australian Communications Authority (ACA) which aim to minimise electromagnetic interference.

Rinnai Australia Supplier Code 5109.

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Produced by Technical Services Department

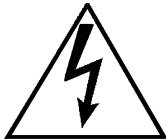
2012 - Issue 2

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### **Key to Warning Symbols**



Failure to comply with the following instructions may result in serious personal injury or damage to the appliance.



Be careful of possible electric shock. Wiring inside this appliance may potentially be at 240 Volts.



Read Fault Diagnosis and Wiring Diagram carefully to avoid incorrect wiring

**Please follow instructions carefully to ensure safe and appropriate service. After completing the service and confirming that there are no gas leaks or incorrect wiring, test operation of unit according to the Customer Operating Instructions. After confirming normal operation, explain what was serviced to the customer and operation principles if necessary.**

This manual has been compiled by Rinnai Australia Engineering & Technical Services. While many individuals have contributed to this publication, it will be successful only if you - the reader and customer - find it useful. We would like to extend an invitation to users of this manual to make contact with us, as your feedback and suggestions are valuable resources for us to include as improvements. Rinnai are constantly working toward supplying improved appliances as well as information, and specifications may be subject to alteration at any time.

RDV-3610ETR/RDV-3611ETR Flame Fire  
Issue N<sup>o</sup>2



**DO NOT MODIFY THIS APPLIANCE.**

**SERVICING SHALL BE CARRIED OUT ONLY BY AUTHORISED PERSONNEL.**

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# Glossary of Terms and Symbols

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This glossary of terms and symbols is provided to assist you in understanding some of the language used throughout this manual.

|             |   |   |
|-------------|---|---|
| dB(A)       | - | sound pressure level in decibels, “A” range |
| DC          | - | direct current                              |
| AC          | - | alternating current                         |
| Hz          | - | Hertz                                       |
| IC          | - | integrated circuit                          |
| kcal/h      | - | kilocalorie per hour                        |
| kPa         | - | kilopascals                                 |
| LED         | - | light emitting diode                        |
| mA          | - | milliamps                                   |
| MJ/h        | - | megajoule per hour                          |
| mm          | - | millimetres                                 |
| OHS         | - | overheat switch                             |
| PCB         | - | printed circuit board                       |
| CPU         | - | central processing unit                     |
| POT         | - | potentiometer                               |
| rpm         | - | revolutions per minute                      |
| SV          | - | solenoid valve                              |
| ø           | - | diameter                                    |
| $\Delta$ °C | - | temperature rise above ambient              |
| POV         | - | modulating valve                            |
| TH          | - | thermistor                                  |

# Introduction

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- The Rinnai Symmetry RDV-3610ETR / RDV-3611 ETR Inbuilt Flame Fire consists of a glass-fronted combustion chamber and a heat exchanger system.
- It incorporates one ceramic topped multiport burner and log set.
- Controls are by electronic PCB / electronic ignition and modulating gas valve.
- A two-speed convection fan is incorporated in the base.



**The log set is packed inside the combustion chamber for transportation.**

# Specifications

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## General Specifications

|                     |  |
|---------------------|--|
| Models              | RDV3610ETR / RDV3611ETR (N/L)  |
| Model Name          | Symmetry® Gas Log Flame Fire   |
| Features            | Balanced Flue Inbuilt Gas Space Heater<br>Burning log effect<br>Glass front<br>Convection Fan, top warm air outlet<br>Wireless Remote control/thermostat, 7 day programmable timer |
| Installation        | Inbuilt only   |
| Combustion Method   | Ceramic top pan burner - bunsen burner type  |
| Flue                | Balanced Co-Axial Flue,<br>Inner = 100 mm or 4". Outer = 170 mm or 6 x 5/8", for Flueing configurations refer to separate flueing manual   |
| Gas connection      | 15mm (1/2") male flare   |
| Gas types           | Natural Gas / Universal LPG / Propane  |
| Ignition            | Continuous Spark Electronic Ignition   |
| Input / Output      | Refer data plate and energy rating label on appliance  |
| Power Consumption   | High 50 W, Standby < 0.3 W<br>1500 mm cord is supplied with a 3 pin plug on right hand side of appliance   |
| Safety Devices      | Overheat Switches<br>Electrical Fuse<br>Flame Failure Sensing System (FFD)<br>Power Failure Protection   |
| Temperature Control | Thermostatic, temperature control range 17 - 32°C  |
| Weight              | 75 Kg - uncrated - Flue packaged separately  |



NOTE

For other appliance specifications refer to appliance data plate.

## Technical Specifications

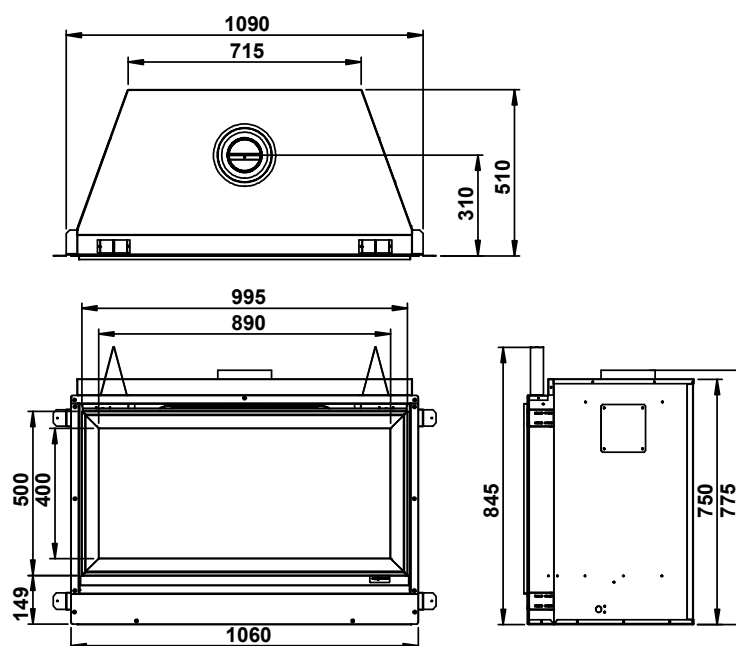
| Item                                |            | Description   |                             |            |
|-------------------------------------|------------|---|-----------------------------|------------|
|                                     |            | Natural Gas   | ULPG                        |            |
| Gas Input                           | High       | 33MJ/h  | 33MJ/h                      |            |
|                                     | Low        | 19MJ/h  | 19MJ/h                      |            |
| kW Output                           |            | 7.57 Pos#3  | 7.78 Pos#1                  | 7.80 Pos#2 |
| ATPP Burner pressure                | High       | 0.75kPa   | 1.75kPa                     |            |
|                                     | Low        | 0.24kPa   | 0.60kPa                     |            |
| Main Burner Injector Ø              |            | 3.00mm (Threaded Hex Brass)   | 1.70mm (Threaded Hex Brass) |            |
| Pilot injector Ø (SIT pilot number) |            | # 62  | #35                         |            |
| Appliance Inlet Pressure            | Max        | 3.5 kPa   | 3.5 kPa                     |            |
|                                     | Min        | 1.13kPa   | 2.5 kPa                     |            |
| Gas Control                         |            | SIT® Sigma 845 AGA Cert # 5733  |                             |            |
| Ignition module assembly            |            | SIT® Ignition pack 579 DBC AGA Cert # 7358                            |                             |            |
| Gas Connection                      |            | 1/2" Flared   |                             |            |
| Pilot assembly                      |            | Pilot – SIT 190 series  |                             |            |
| Internal gas piping                 |            | Pilot - 6mmØ x 1.0mm aluminium<br>Burner - 8mmØ x 1.0mm aluminium     |                             |            |
| Remote control                      |            | Millennium Electronics® RF remote control                             |                             |            |
| Dimensions – (maximum limits)       |            | Width   | Height                      | Depth      |
|                                     |            | 1110mm  | 845mm                       | 545mm      |
| Weight                              |            | 75kgs   |                             |            |
| Convection Fan                      |            | Fergass® 300mm x 60mm - 2 speed.                                      |                             |            |
| Glass                               |            | Schott – ROBAX®   |                             |            |
| Electrical connection               |            | 240V 50Hz 0.21Amps 3pin plug + ~2m Lead.                              |                             |            |
| Power Consumption                   |            | Less than 50W Normal Operation. Less than 3W on Standby.              |                             |            |
| Fuse                                |            | 3Amp 250V glass fuse  |                             |            |
| Temperature range                   |            | 7°C -32°C   |                             |            |
| Decibel level                       |            | Hi ~ Lo=45 ~ 37dB(A   |                             |            |
| Combustion Chamber lining           |            | Ceramic – formed panels   |                             |            |
| Flue                                |            | Co-Axial 4"ID x 6 5/8"OD<br>Abey® - Simpson Duravent Direct Vent Pro® |                             |            |
| Flue Cowl                           | Horizontal | Duravent® horizontal terminal #0985                                   |                             |            |
|                                     | Vertical   | Duravent® Vertical Hi-wind terminal #0991                             |                             |            |

| Energy Rating / Applicable Flue Configuration |        |       |        |  |                     |                |                     |                |                   |
|---|--------|-------|--------|--|---------------------|----------------|---------------------|----------------|-------------------|
| Configur<br>ation                             | Vert   | Horz  | Bend   | Terminal                                     | Baffle<br>Position  | Star<br>Rating | Red Band<br>Shading | AEC<br>MJ/year | Out put<br>Max kW |
| #1  | 600mm  | 300mm | 1x 90° | Duravent horizontal<br>terminal #0985        | Not used            | 4.4            | 130.9°              | 13,076         | 7.78              |
| #2  | 600mm  | 800mm | 1x 90° | Duravent horizontal<br>terminal #0985        | Not used            | 4.5            | 134.0°              | 13,108         | 7.80              |
| #3  | 5400mm | -     | -      | Duravent Vertical Hi-<br>wind terminal #0991 | Hole<br>Position #2 | 4.2            | 125.4°              | 13,144         | 7.57              |

| Combustion Stage /<br>Flame setting | Fan Speed   |
|-------------------------------------|---|
| ON - Pilot / Ignition               | No Fan.   |
| 7, 6, 5.                            | High Speed After a time delay of 4<br>mins at 'ON' after ignition |
| 4, 3, 2.                            | Low speed   |
| 1.                                  | High speed  |
| OFF                                 | High Speed run on of 8 mins after<br>shut down.                   |

# Dimensions

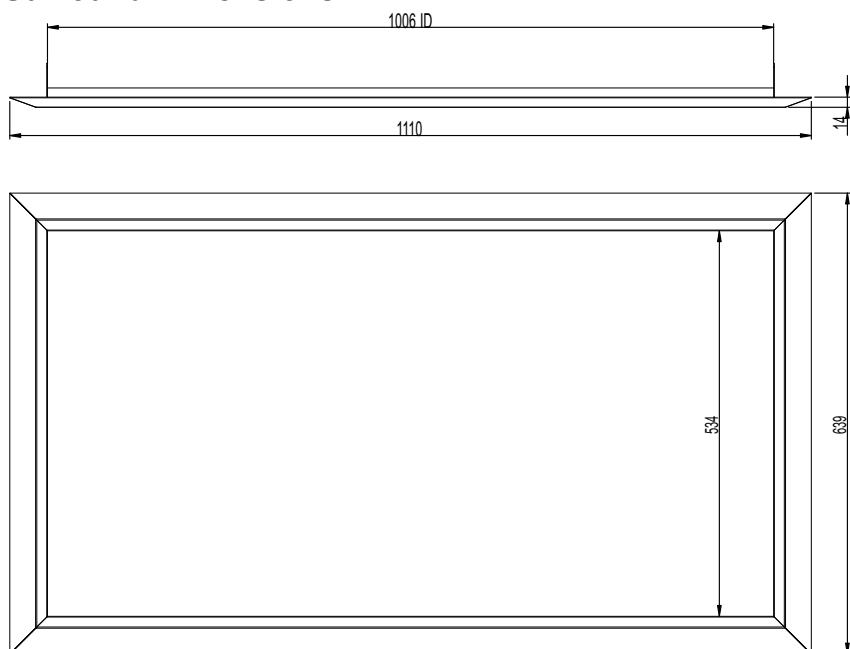
## Main Body



Dimensions Without Surround (mm)

|         | Body | Glass | Front | Cavity |
|---------|------|-------|-------|--------|
| Width:  | 1050 | 910   | 1110  | 1100   |
| Height: | 750  | 410   | 640   | 845    |
| Depth:  | 520  | 5     | 13    | 600    |

## Body with Surround Dimensions



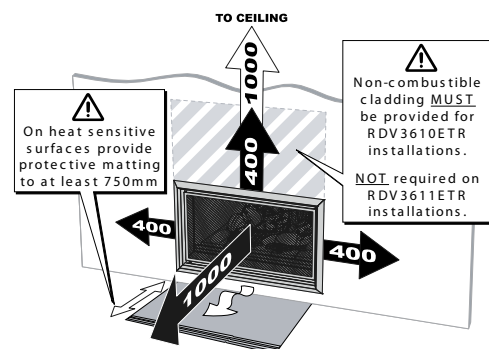
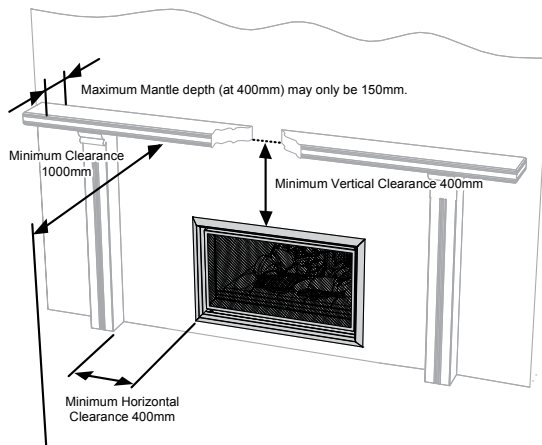
Dimensions with Surround (mm)

|   | Body    | Glass | Front |
|---|---------|-------|-------|
| Width:  | 1110    | 910   | 1110  |
| Height:   | 750     | 534   | 639   |
| Depth: *  | Minimum | 536   |       |
|   | Maximum | 550   |       |
| <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <br/> <b>NOTE</b> </div> <div>                     * Depth: Adjustable to allow for cladding material                 </div> </div> |         |       |       |

# Heater Location

## Location

- When positioning the heater, variables governing the location are Flueing and Warm Air Distribution.
- This heater must not be installed where curtains or other combustible materials could come into contact with it. In some cases curtains may need restraining.
- Mantles and surrounds can be added to complement the design provided that they conform to the clearances shown in the drawings below.
- The minimum clearance from the mesh dress guard edge is 400 mm. The depth of the mantle/ surrounds at the minimum clearance may not exceed 150 mm.
- An additional 100 mm of clearance is required for every extra 50 mm of mantle depth, i.e. for a 200 mm deep mantle the clearance is 500 mm (as shown below).



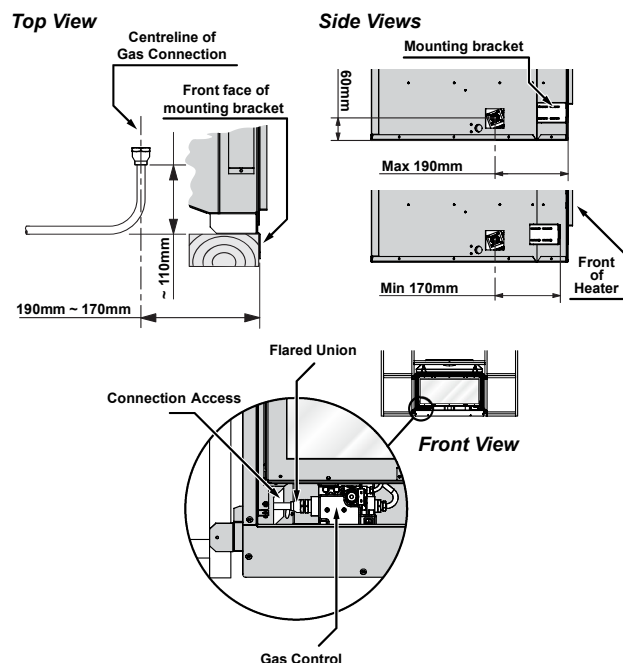
**For all installations. Only as specified Abey® Co-Axial Flue components MUST be used.**  
**The Rinnai Symmetry® MUST NOT be flued into 'natural draft' flue system or terminate into a chimney.**

## Gas Supply

The gas supply terminates inside the heater at the front lower left hand side of the appliance. Locate the gas supply pipe to suit position as per the heater gas inlet. Refer to the dimensional drawings on page 5 for appliance gas inlet location.

The gas inlet connection is located at the bottom front left of the appliance,

1. Remove the brass nut from the 1/2" flared threaded gas inlet located at the bottom left side of the appliance. Refer to 'front view' in drawing below, ensure the brass nut supplied is used.
2. Attach the gas supply pipe to the appliance gas inlet and tighten.
3. Leak test the connection.





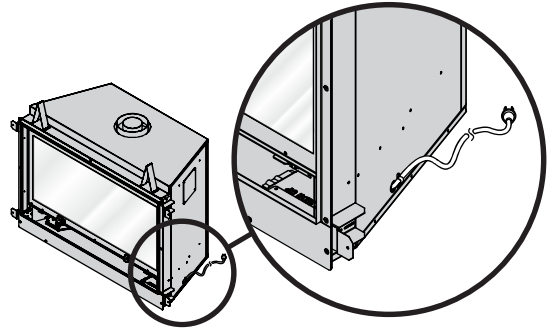
Gas pipe sizing must consider the gas input to this appliance as well as all other gas appliances in the premises. The gas meter and regulator must be specified for the total gas rate. Suitable sizing chart such as the one in AS/NZS 5601 should be used.

## Purging the Gas Supply

- All foreign materials such as filings must be purged from the gas supply, before connecting to the appliance as they may cause the gas control valve to malfunction.

## Electrical Supply

- This heater is supplied with a power cord (length 1500 mm) and three pin plug. The power cord passes through the right hand side panel as shown. Rinnai recommend the heater be plugged into a 240V, 10A earthed power point. The power point must not be above the heater. A suitable means of electric isolation must be provided which is adjacent to the appliance and accessible with the appliance installed, in accordance with AS/NZS 5601.
- The appliance can be direct wired if the power supply is to be concealed. An isolator switch **MUST** be used in accordance with AS/NZS 5601 & AS/NZ3000.

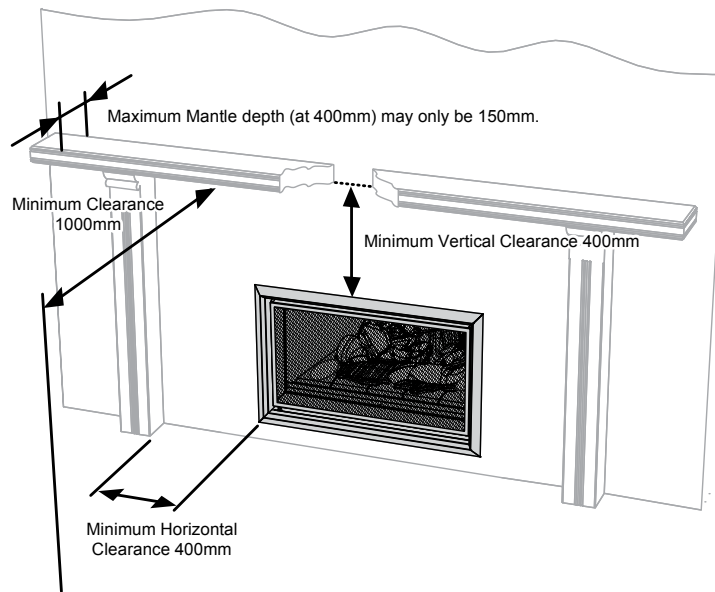


- Consult a qualified electrician if direct wiring is required as it must comply with the requirements of AS/NZS 5601 & AS/NZS 3000 and any other relevant local regulations.
- The electrical cord must not come into direct contact with the heated parts of the appliance or flue system.
- If the power cord is damaged and requires replacing, it must be replaced by a licensed tradesperson. It must be a genuine replacement part available from Rinnai.

## Installation of TV or ornamentation above the heater



- The temperature of the wall surface directly above the appliance is elevated and may discolour paint finishes or distort vinyl wall coverings. For durability of surfaces you should contact the relevant manufacturer for their specification.
- The installation of electrical appliances above and in the vicinity of the heater such as, but not limited to, Plasma TV, LCD TV, Home Theatre Screens, Speakers, etc must comply with their manufacturers' instructions.
- It is the responsibility of the installer/end-user to check the installation instructions of these items and to ensure the location is suitable.
- This caution also extends to, but is not limited to, ornaments such as: Paintings, Prints, Photographs, Tapestries, Mirrors, Stuffed Animals, etc.
- Please note the recommended clearances in the image below.



IDEA

Use either a shelf or mantle below the TV or ornament or alternately you can construct a recess to mount TV or ornament on.

Check the manufacturers installation instructions for these items and ensure the recess is suitable.



NOTE

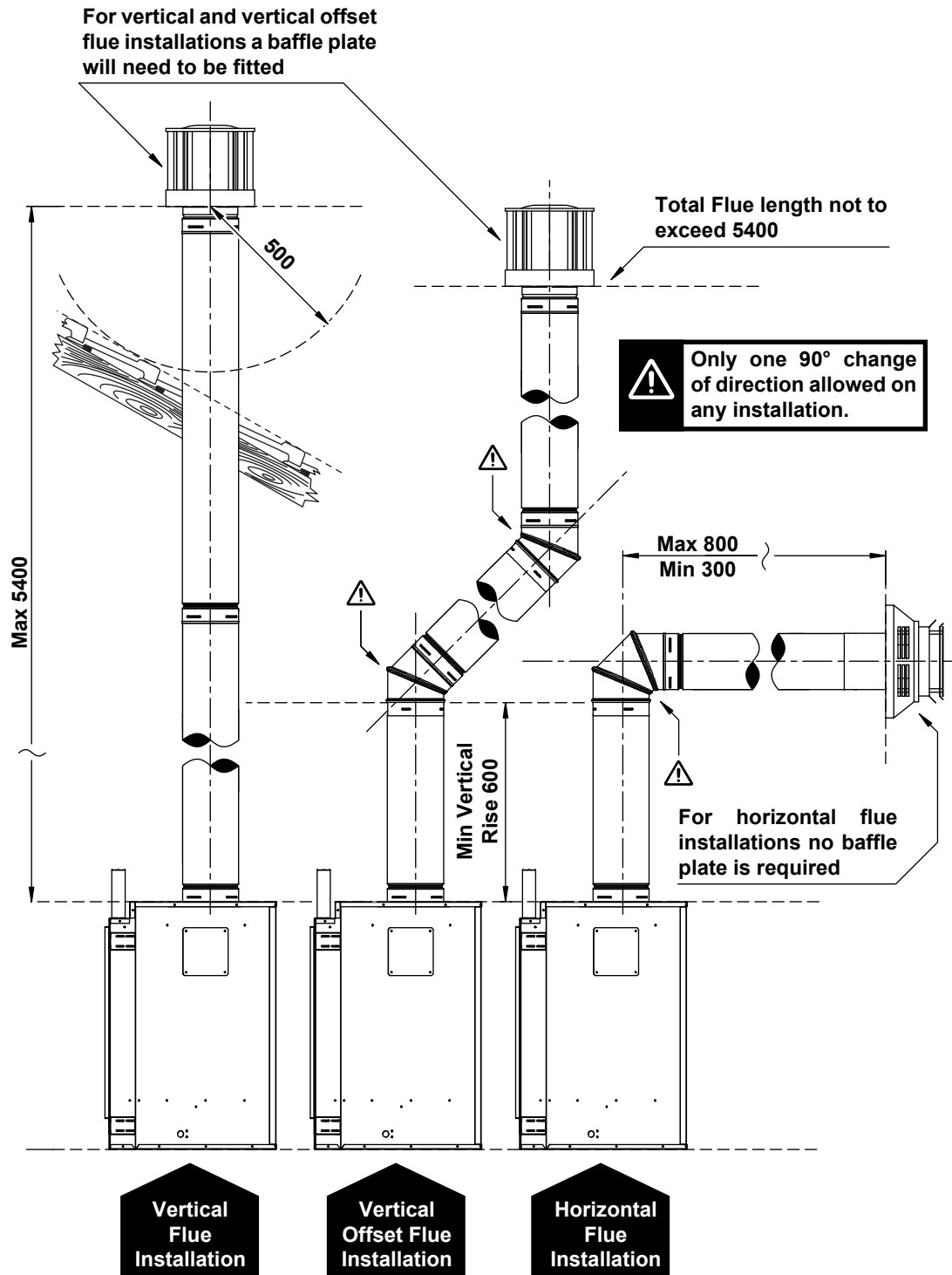
Rinnai does not take any responsibility for any damage occurring to any items installed above and in the vicinity of the heater.

# Flue Installation Configuration

## Flue Installation

For all installations, only “Abey®” Flue components shown in these instructions **MUST BE** used. This appliance **MUST NOT** be flued into ‘natural draft’ flue system or terminate into a chimney.

All measurements are in (mm)



Correct baffle must be used for vertical installations

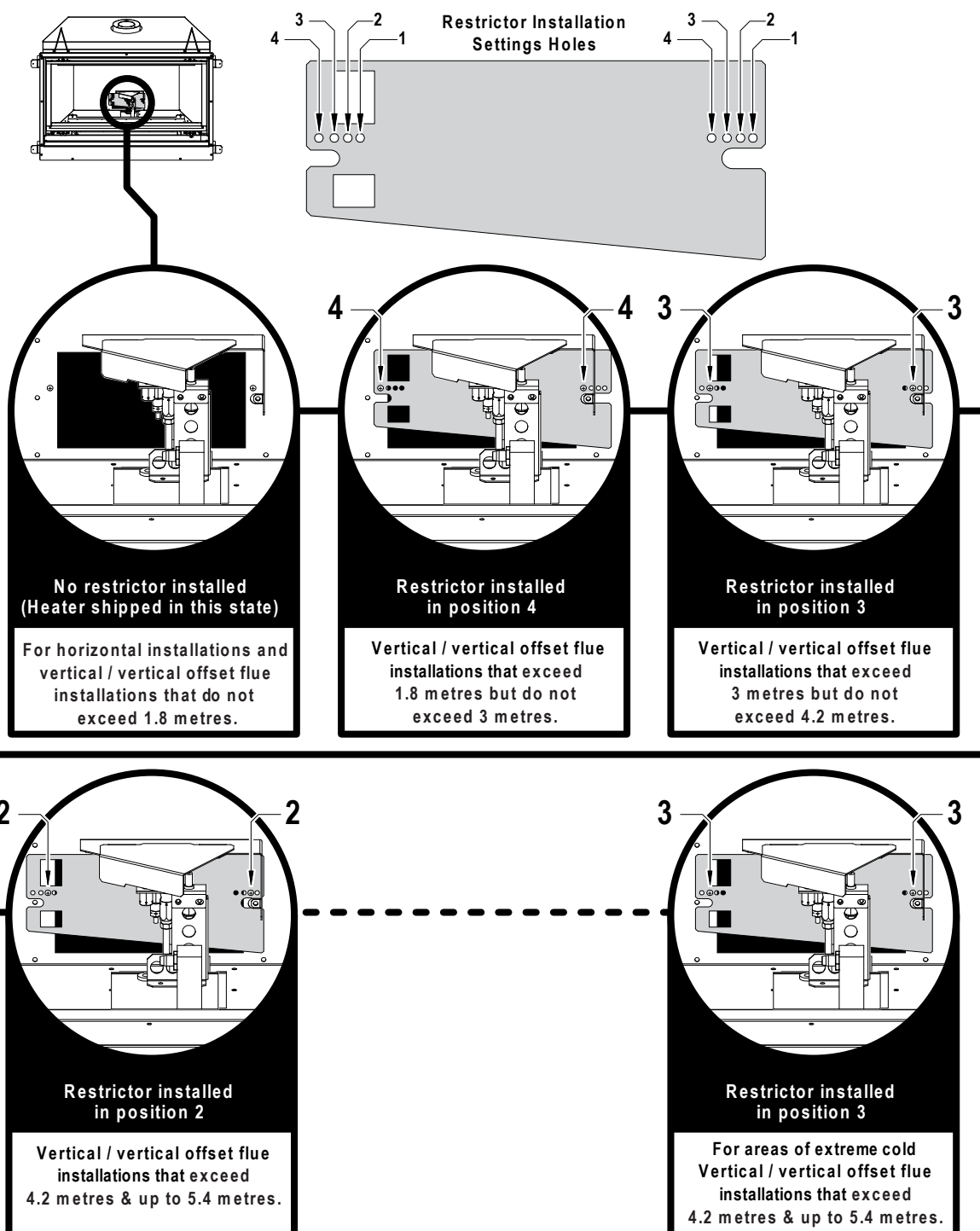
## Connect Flue and Installing the Flue Restrictor

Connect the Abey® Flue to the flue outlet at the top of the appliance.

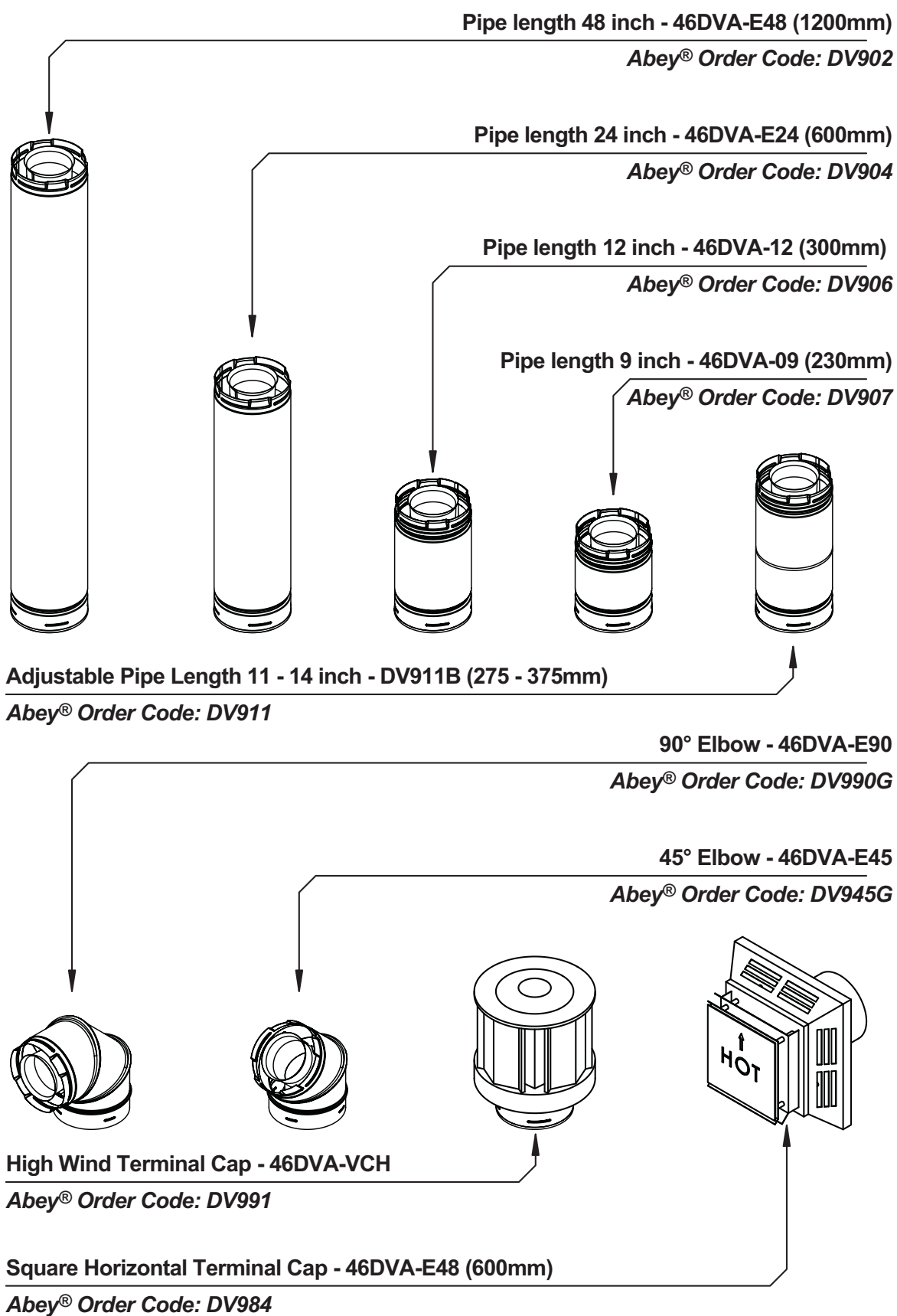
A flue restrictor is required for Vertical and Vertical Off-set installations.

If a flue restrictor is required install as follows:

- Step 1). Remove the pilot cover panel by tilting up and back and lifting out from its location slots.
- Step 2). Carefully remove the burner pad assembly by carefully but firmly grasping the burner and lifting in an upward and forward motion.
- Step 3). Fit the flue restrictor choosing the appropriate baffle position. See images below.
- Step 4). Carefully replace the burner pad assembly ensuring it locates correctly over the locating tabs fixed to the base of the burner box.



## Flue Information - Abey® Flue System \*



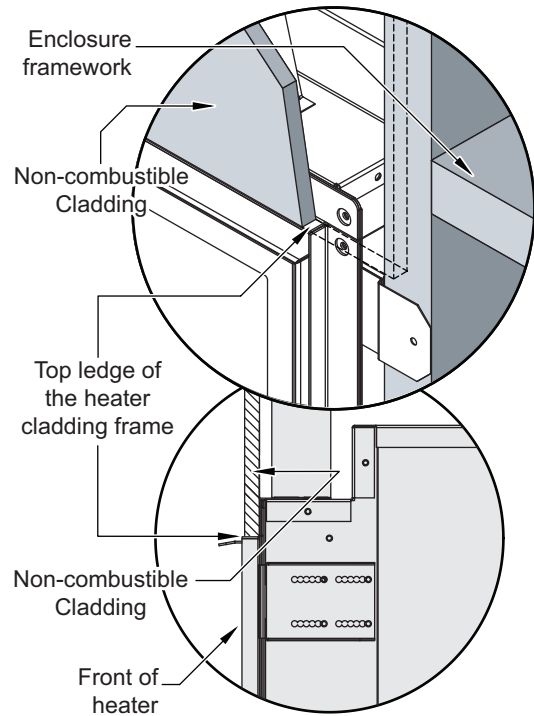
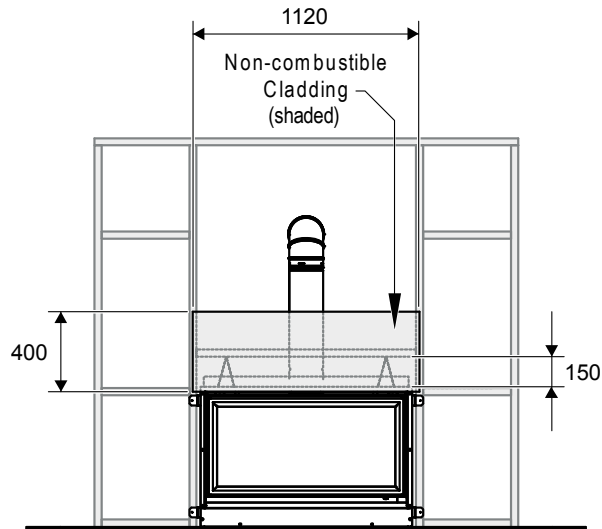
\* Also available in 900mm Pipe Length. Abey® Order Code: DV903G

## Cladding

### Model: RDV3610ETR



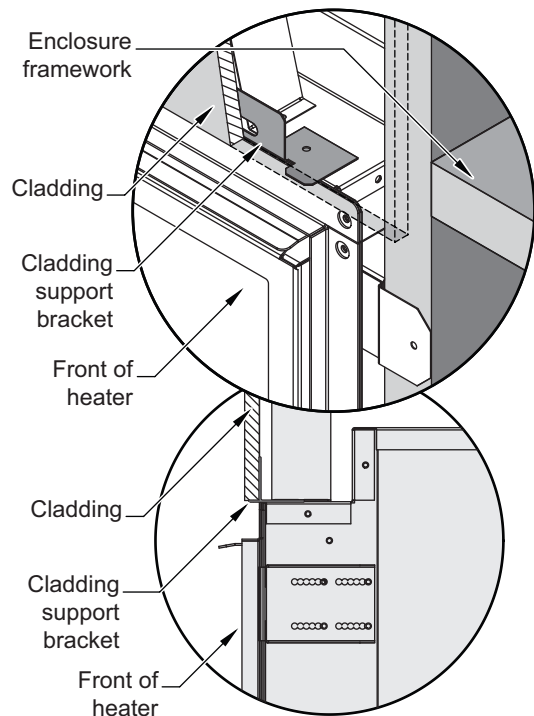
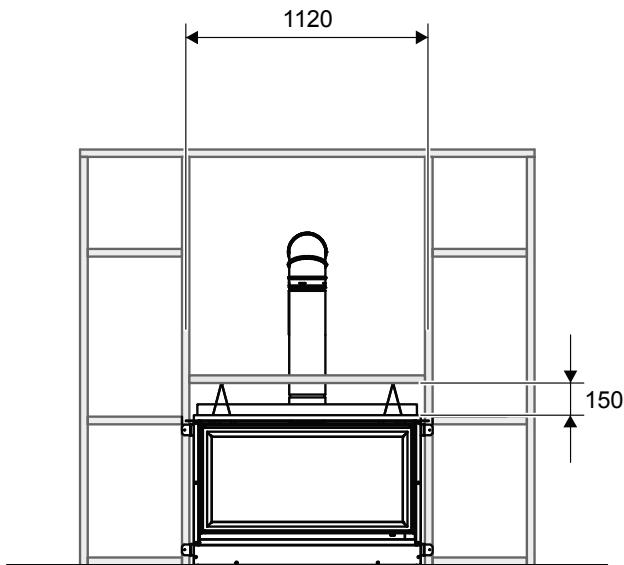
Non-combustible cladding dimensions marked below are minimum size requirements only, the non-combustible cladding may extend beyond the dimensions stipulated.



### Model: RDV3611ETR



Cladding **MUST NOT** extend lower than the cladding support bracket.



# Log Set Location



For clarity the drawings are displayed without showing the entire heater.

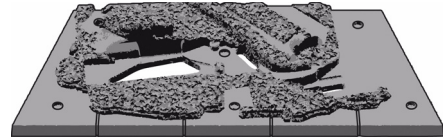
**DO NOT** remove the burner from heater to install the log set.

Use extreme care when handling the Log Set components, they are made from a very fragile high temperature material and will damage if handled roughly. Only remove the components from their packaging as required.

The log set must be installed in the precise order below. Ensure main burner is clean and free from particles and all packaging material.

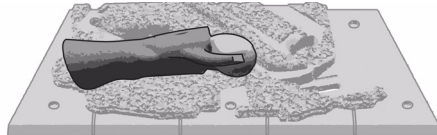
**Piece 1. Log with rock attached.**

Rock end and left hand bottom edge into burner body to locate this piece.



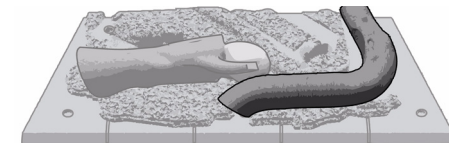
**Piece 2. Long curved log.**

Location on the front left bottom edge and the rear end bottom edge into the burner body recess.



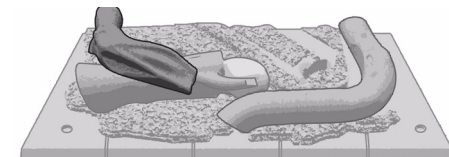
**Piece 3. Stocky chipped log.**

Location is flat on the rear bottom edge into the burner and nestles on the top of 'Piece 1'.



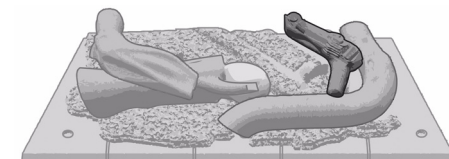
**Piece 4. Branching Segment.**

Nestles in 'U' shaped groove with a keyed section into the burner, the front rests on 'Piece 2'



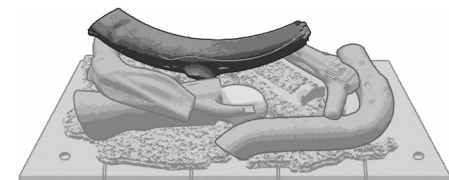
**Piece 5. Bowed log.**

Right and left ends locates in recesses in pieces 3 & 4 respectively. The middle of this piece has a 'knot' which has point contact with the tip of 'Piece1'.



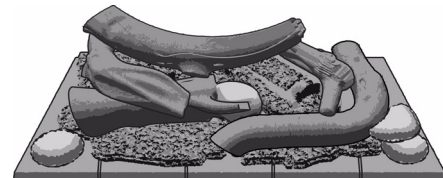
**Piece 6 & 7. Stones.**

The stones are to be placed over the burner assembly visible at left and right of the burner pad. One over each hole.



**Final layout.**

Complete.



# Fault Analysis

**NOTE:** Before proceeding with dismantling, be sure to follow the CAUTION instructions before each explanation.

## CAUTION

**240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.**

**All work should be carried out by qualified service technician**

| Nature of fault  | Examination point   | Diagnostic point  | Values   | Y/N | Action   |
|--|---|---|--|-----|--|
| (a) Appliance does not operate                                     | 1) Is the voltage correct?  | 1) Check power point and check voltage inside PCB (Brown and outer Blue wire) see wiring diagram. | 1) AC 216-264V   | Yes | Go to 3  |
|  |   |   |  | No  | Check fuse   |
|  | 2) Is there resistance across fuse                                    | Check across fuse   | < 1 $\Omega$   | yes | Go to 3  |
|  |   |   |  | No  | Replace fuse   |
|  | 3) Is there voltage to ignition pack?<br>Black-Blue<br>Terminals 4-11 | With the appliance switched on check for voltage at ignition pack                                 | AC 216-264V  | Yes | Go to 4  |
|  |   |   |  | No  | Replace PCB  |
|  | 4) Is there spark does the pilot burner light up                      | Visual  | Visual   | Yes | Go to (c)  |
|  |   |   |  | No  | Go to 5  |
|  | 5) Check over heat switch   | Terminals 2-1   | <1 $\Omega$  | Yes | go to 6  |
|  |   |   |  | No  | Replace over heat switch   |
| (b) No spark at ignition probe                                     | 6) Loose high tension lead or cracked /damaged ignition probe         | Check by visual observation. for loose high tension lead or damaged ignition probe                | Installation normal. Spark gap 3.5mm $\pm$ 0.5                   | Yes | Correct loose connection or replace ignition probe   |
|  |   |   |  | No  | Replace ignition pack  |
| (c) Spark ignition occurs but pilot does not light                 | 7) Check gas pressure at test point                                   | Check gas pressure with digital manometer at outlet of gas valve                                  | <b>N.G.</b><br>0.24 – 0.75 kPa<br><b>LPG</b><br>0.60 – 1.75 kPa  | Yes | Recheck igniter gap. Purge system if required  |
|  |   |   |  | No  | Go to 8  |
|  | 8) Check voltage at POV   | Yellow-Yellow POV terminals   | DC 12V   | Yes | Go to 9  |
|  |   |   |  | No  | Replace PCB  |
|  | 9) Check resistance across modulating valve                           | Check resistance across solenoid valve  | 75-80 $\Omega$   | Yes | Replace ignition pack  |
|  |   |   |  | No  | Replace gas valve  |
| (d) Pilot lights but goes out after 1 minute                       | 10) Check flame rod current   | Check between flame rod lead and flame sensor terminal on ignition pack                           | >15mV  | Yes | Replace ignition pack  |
|  |   |   |  | No  | Go to 6. Check gas supply pressure, check flame rod <1 $\Omega$ for damage. Replace if required. |
| (e) Burner ignites but flame does not modulate with remote control | 11) Check voltage at POV and observe flame                            | Yellow-Yellow POV terminals and observe flame   | Variable up to DC 12V<br>Visual                                  | Yes | Replace gas valve  |
|  |   |   |  | No  | Check remote settings  |
| (f) Fan does not come on   | 12) Check voltage at fan motor connection                             | Fan wiring connector inside PCB   | Red -White ~ 130V<br>Yellow – White ~ 120V<br>Blue – White ~ 95V | Yes | Go to 14   |
|  |   |   |  | No  | Go to 13   |
|  | 13) Check transformer incoming voltage                                | Connector inside PCB Red-Red  | 240V   | Yes | Go to 14   |
|  |   |   |  | No  | Check for loose connections at PCB if no replace PCB   |
|  | 14) check transformer output voltage                                  | Connector inside PCB Brown – Brown  | 110V   | Yes | Go to 15   |
|  |   |   |  | No  | Replace transformer  |
|  | 15) Check resistance of fan motor windings at connector inside PCB    | Hi-Fan: Red – White<br>Medium Fan: Yellow-White<br>Low-Fan: Blue -White                           | Hi 275 $\Omega$<br>Med 246 $\Omega$<br>Low 185 $\Omega$          | Yes | Check fan for obstructions   |
|  |   |   |  | No  | Replace fan motor.   |

## Fault Finding

### Trouble Shooting Checklist

Use the following chart to help determine whether a service call is required, however if you are unsure about the way your heater is operating, contact Rinnai or your local agent.

| <div> <div>Probable Cause</div> <div>Fault Condition</div> </div> | <div> <div>Burners fail to ignite</div> <div>Smell of gas</div> <div>Fan Not Working</div> <div>Minor soot deposits</div> <div>Severe sooting</div> <div>Glass, Condensating</div> <div>Glass, Streaky lines</div> <div>Remote not working</div> </div> | <div> <div>Fault Condition</div> <div>Simplest Possible Remedy</div> </div>             |
|---|---|---|
| Not plugged in or turned off                                      | ●   | Plug in power cord and turn power 'ON'.   |
| Mains power failure   | ●   | Re-ignition, when power restored.   |
| (Initial Install) Air in gas pipe                                 | ●   | Installer to purge air from gas supply.   |
| Air in hose   | ●   | Repeat Ignition procedure.  |
| Ignition failure  | ●   | Repeat Ignition procedure.  |
| Flat battery for remote control                                   | ●   | Replace remote control battery.   |
| Gas supply turned off   | ●   | Turn gas supply on at the meter or cylinder.  |
| Gas escape  | ●   | Isolate gas supply, call Rinnai.  |
| Inadequate flue system  | ●   | Service Call  |
| Insufficient gas pressure   | ●   | Service Call  |
| Log Misalignment  | ●   | Call Rinnai.  |
| Normal operation  | ●   | No action is required.  |
| Normal operation  | ●   | Fan not working - fan automatically comes on after 4 minutes not heat switch activated. |
| Normal operation  | ●   | Allow heater to warm up.  |
| Heat switch not activated   | ●   | Allow heater to run on high for 4 minutes.  |
| Possible fan fault  | ●   | Call Rinnai.  |
| Controller display blank  | ●   | Replace batteries.  |
| Manual Switch Mode select   | ●   | Refer to Customer Operation/Installation Manual   |

Rinnai recommends that this appliance be serviced every 2 years, including inspection of the flue system.

If the power supply cord, gas supply hose or any other component of the heater is damaged, they must be replaced by Rinnai or a suitably qualified person.

Any service or repair work should only be carried out by an authorised person.

Do not remove any panels or attempt to carry out any service work other than that mentioned in the trouble shooting chart.

The user shall be advised that appliances incorporating a solid fuel effect, and designed to operate with luminous flames, may exhibit slight carbon deposits.

If you are unsure about the way your heater is operating, contact Rinnai.

# Commissioning the Appliance

1. After re-checking the pressures, turn the appliance 'OFF', remove manometer and tighten the test point sealing screw and check for gas leaks.
2. Turn the appliance 'ON' and 'OFF' a few times to confirm correct ignition and operation.
3. During the initial burn in period, some smoke and smell may be emitted. The appliance should be run on the high position in a well ventilated room until these dissipate.
4. Check the flame pattern, see 'Abnormal Flame Pattern'.



## 240 VOLTS, RISK OF ELECTRICAL SHOCK!

When performing the commissioning, the appliance electrical power will need to be connected. Exercise **CAUTION** as there is potential for electric shock from the exposed wiring and circuitry. **DO NOT** leave the appliance unattended when power is connected and the panels are removed.

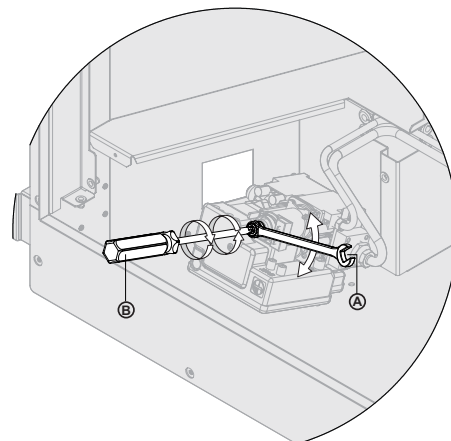
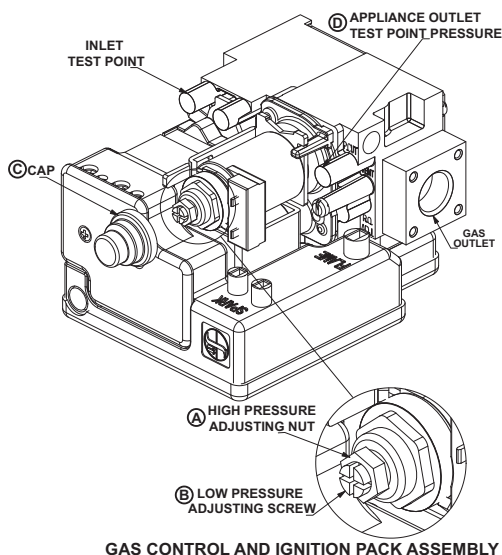
Installation and commissioning must be carried out by an authorised person.

Wiring inside this appliance may be at 240V potential.

**DO NOT** test for gas escapes with an open flame.

## To check and set burner pressures:

1. Refer to the appliance data plate located inside the appliance on the front of the base panel for correct gas pressure settings.
2. Using a suitable screw driver loosen the captive **Appliance Test Point Pressure screw (ATPP) ④** and fit the manometer, (an electronic manometer is recommended). Refer images for ATPP location.
3. Remove the dust cap ③ from the regulator adjusting screws.
4. **High Pressure Setting:**  
Turn the appliance 'ON' and adjust to the highest setting, refer to the 'Operational Installation Manual'. Use a 10 mm spanner to turn nut ①, lock screw ② with appropriate screw driver to prevent it turning. Turning nut ① clockwise increases the outlet pressure whilst turning anti-clockwise decreases the outlet pressure.
5. **Low Pressure Setting:**  
Turn 'OFF' the power to the POV by separating the connector of the two yellow wires that power the POV. The POV will automatically default to 'Low Pressure' operation. Keep the high pressure adjusting nut stationary using a 10 mm spanner. Use an appropriate screwdriver for setting screw ②. Turning clockwise increases the outlet pressure whilst turning anticlockwise decreases the outlet pressure.
6. Replace the dust cap ③ after pressure adjustments.
7. Reconnect the POV Yellow wires power connection.



To ensure the correct operation of the modulating valve (POV) it is necessary that the dust Cap C is returned to its original location.

# Dismantling for Servicing

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**NOTE:** Before proceeding with dismantling, be sure to follow the CAUTION instructions before each explanation.

## ***CAUTION***

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

**All work should be carried out by qualified service technician**

| <b><u>ITEM</u></b>   | <b><u>PAGE</u></b> |
|--|--------------------|
| 1/ Removal of Front Panel .....  | 18                 |
| 2/ Accessing / Removal of PCB, Transformer, Ignition System & Gas Adjustment ..... | 18                 |
| 3/ Removal / Disconnection of Main PCB.....  | 19                 |
| 4/ Removal / Replacement of Transformer.....                                       | 20                 |
| 5/ Removal / Replacement of Ignition System .....                                  | 19                 |
| 6/ Removal of Glass Panel .....  | 21                 |
| 7/ Removal / Replacement of Log Set.....   | 21                 |
| 8/ Removal / Replacement of Burner Assembly .....                                  | 21                 |
| 9/ Accessing Flue Restrictor Plate.....  | 22                 |
| 10/ Removal / Replacement of Main Injector.....                                    | 22                 |
| 11/ Removal / Servicing of Pilot Assembly .....                                    | 22                 |
| 12/ Removal of Fan Assembly .....  | 23                 |
| 13/ Removal / Replacement of Ignition/Spark and Earth Leads .....                  | 24                 |
| 14/ Replacement of Pilot Tube .....  | 25                 |
| 15/ Removal / Replacement of Main Gas Supply Tube .....                            | 25                 |
| 16/ Removal / Replacement of Gas Valve.....  | 25                 |
| 17/ Removal / Replacement of Overheat Switch.....                                  | 26                 |
| 18/ Removal / Replacement of Inner Top Heat Shield .....                           | 27                 |
| 19/ Removal of Burner Box.....   | 27                 |
| 20/ Removal of Heat Exchanger .....  | 28                 |

Unless otherwise stated, re-assembly is the reverse of dismantling.



### **CAUTION**

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

#### **1) Removal of Front Panel**

- a. Remove Mesh Guard by lifting bottom section forward and up (Refer to Image 1). Place Mesh Guard away from heater in a safe place.



Image 1

- b. Remove fascia Surround by removing 4 x screws, two on either side of Fascia. (Refer to Image 2).



Image 2

#### **2) Accessing / Removal of PCB, Transformer, Ignition System & Gas Adjustment**

- a. Remove Mesh Guard (Refer to Step 1).
- b. Remove front service panel by removing 2 x threaded screws one either side of panel (Refer to Image 3).
- c. Remove rear service panel by removing 2 x threaded screws one either side of panel (Refer to Image 3).

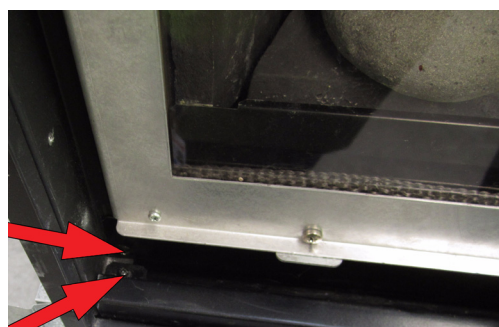


Image 3

- d. Disconnect RJ45 connector from Rear Service Panel manual control switch before pulling panel away (Refer to Image 4).

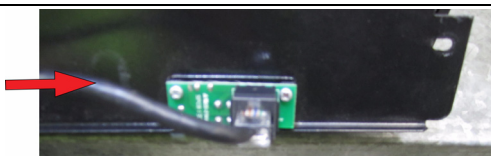


Image 4



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

#### 3) Removal / Disconnection of Main PCB

- Main PCB is located on RHS of unit. Lift Main PCB Assembly off Velcro tabs (Refer to Image 5).
- Undo cover screw on LHS of Main PCB Assembly (Refer to Image 5) and gently pull cover off.

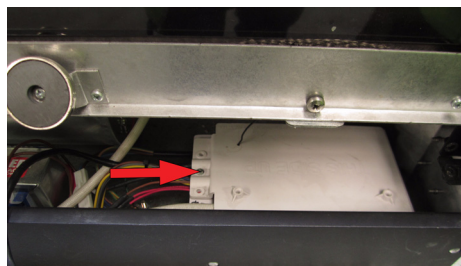


Image 5

**NOTE: Ensure care is taken not to damage aerial receiver wire when removing cover.**

- Disconnect 4 x quick connectors and 1 x RJ45 connector (Image 6). Reverse order when reconnecting Main PCB.

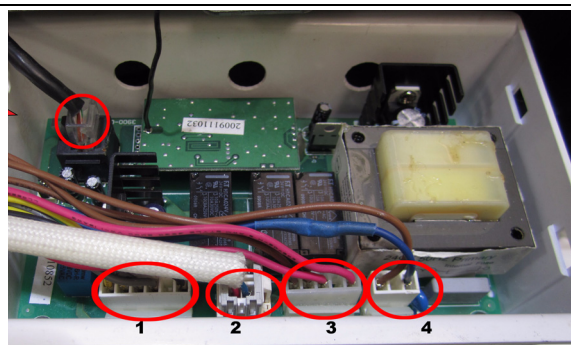


Image 6

#### 4) Removal / Replacement of Transformer

- Remove Mesh Guard, Front and Rear Service Panels and RJ45 Connector (Refer to Steps 1 & 2).
- Remove 2 x screws, one on either side of Transformer (Refer to Image 7).
- Disconnect connector number 3 on Main PCB (Refer to Image 6). Reverse order when re-installing.



Image 7

#### 5) Removal / Replacement of Ignition System

- Remove Mesh Guard, Front and Rear Service Panels and RJ45 connector (Refer to Steps 1 & 2).
- Remove 2 x screws on face of Ignition Pack (Refer to Image 8).

**NOTE: RHS screw is a long-threaded type; LHS screw is a shorter self-tapping screw.**



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.  
All work should be carried out by qualified service technician

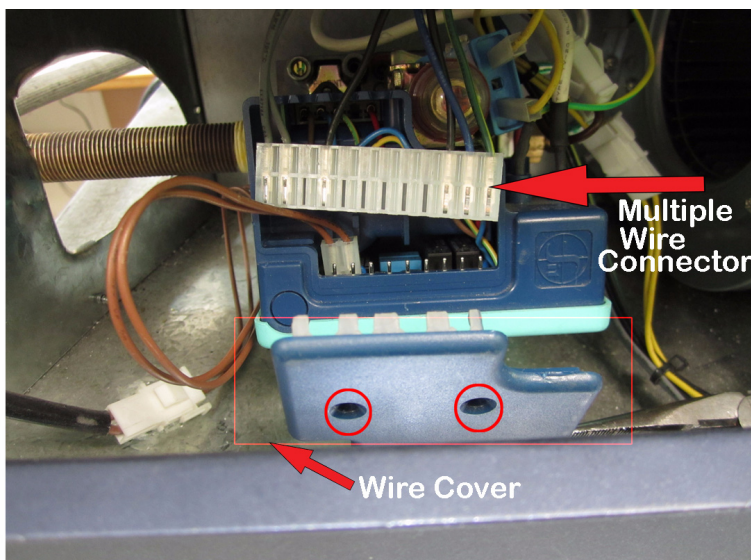


Image 8

- c. Pull wire cover off front to access wiring (Refer to Image 8).
- d. Remove multiple wire connectors by gently pulling upwards and until clear of connector pins (2 x brown wires). (Refer to Image 8).
- e. Remove two-pin overhear connector (2 x brown wires) in the same manner. (Refer to Image 8).

- f. Pull Ignition Pack forward from Gas Valve (Refer to Image 9).
- g. Disconnect high tension spark lead, earth lead and flame sensor lead (Refer to Image 9). Ignitor Box can now be removed.
- Reverse order when replacing Ignition Pack.

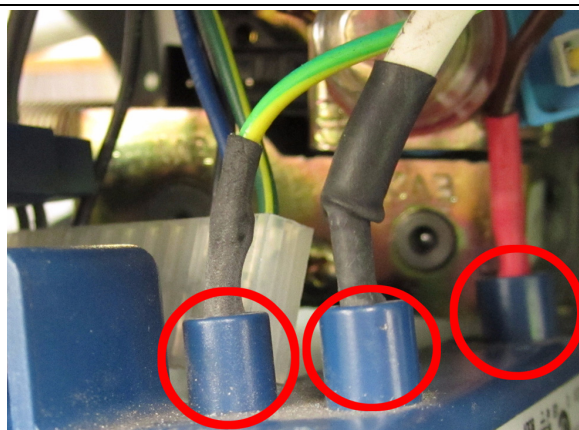


Image 9



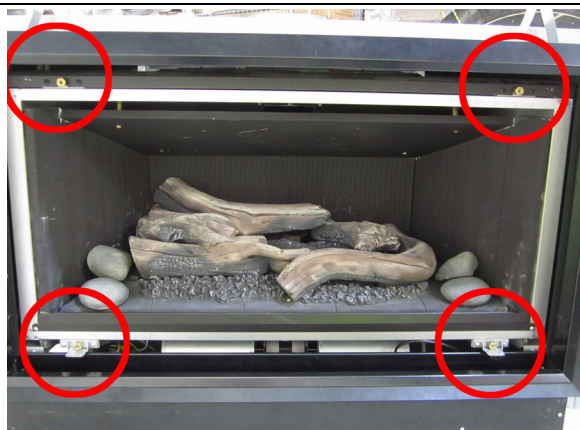
### **CAUTION**

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.  
All work should be carried out by qualified service technician

#### **REMOVAL OF GLASS PANEL, ACCESSING LOG SET, BURNER, PILOT & FAN ASSEMBLY, GAS VALVE, PILOT/GAS SUPPLY TUBE, FLUE RESTRICTOR PLATE AND MAIN INJECTOR.**

##### **6) Removal of Glass Panel**

- a. Remove Mesh Guard (Refer to Step 1a)
- b. Remove Glass Panel by removing 4 x screws (Refer to Image 10). Place Glass Panel away from heater in a safe location.



**Image 10**

##### **7) Removal / Replacement of Log Set**

- a. Remove Glass Panel (Refer to Step 6).
- b. Remove Log Set. Take note of Log Set position. For reassembly, refer to Log Set Installation Instructions found in the Customer Operation and Installation Manual.

##### **8) Removal / Replacement of Burner Assembly**

- a. Remove Glass Panel (Refer to Step 6) and Log Set (Refer to Step 7).
- b. Remove Pilot Cover (Refer to Image 11).



**Image 11**

- c. Remove Burner Assembly by placing hands as shown in Image 12.
  - d. Lift Burner Assembly upwards and forwards. Ensure Burner Assembly is placed away from heater in a safe location to avoid damage.
- Reverse order to reassemble.



**Image 12**



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

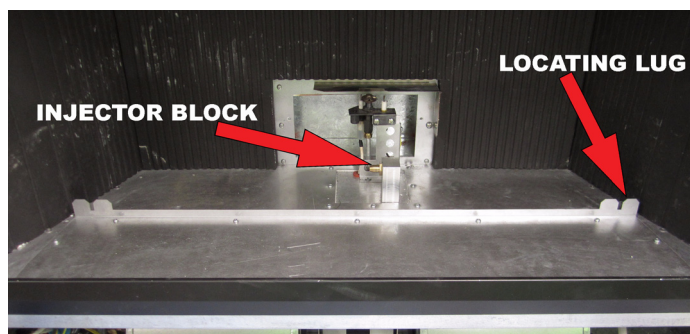


Image 13

**NOTE:** Make sure Burner Assembly is correctly located over Injector Block and Locating Lugs (Refer to Image 13).

#### 9) Accessing Flue Restrictor Plate

- a. Remove Burner Assembly (Refer to Step 8).
- b. For adjustment of Flue Restrictor Plate, refer to Flue Installation Section in the Customer Operating and Installation Manual.

#### 10) Removal / Replacement of Main Injector

- c. Remove Burner Assembly (Refer to Step 8).
- d. Injector is now accessible for removal/replacement (Refer to Image 13).

#### 11) Removal / Servicing of Pilot Assembly

- a. Remove Burner Assembly (Refer to Step 8).

##### For Servicing:

- b. Pull Securing Clip to the right (Refer to Image 14).
- c. Lift off Pilot Head (Refer to Image 14).
- d. Remove Pilot Injector using a 5/32 Allen Key.

##### For Replacement/Removal:

- a. Remove 4 x self-tapper screws (Refer to Image 14).

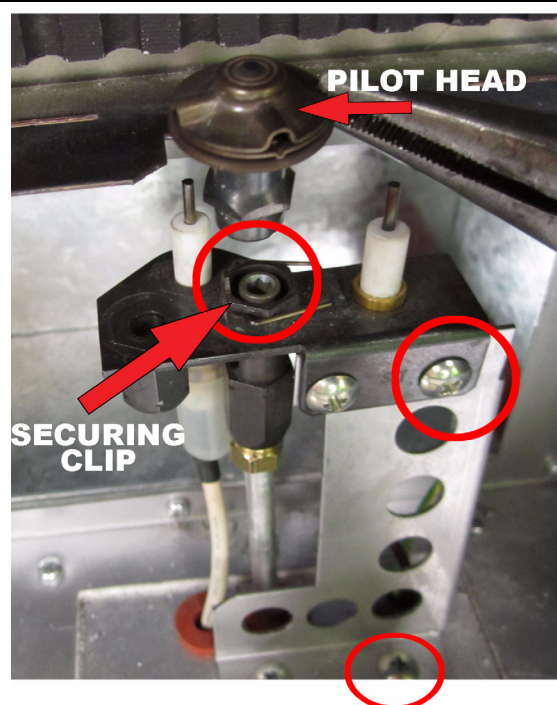


Image 14

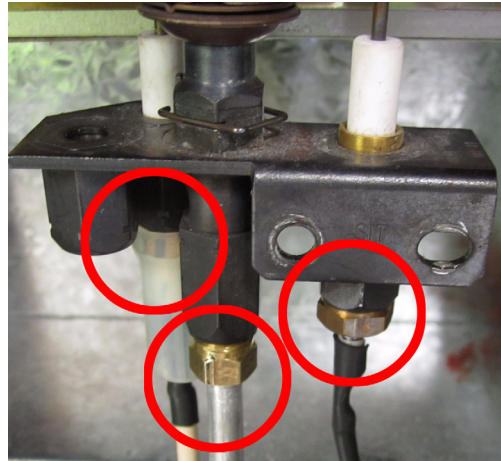


### **CAUTION**

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

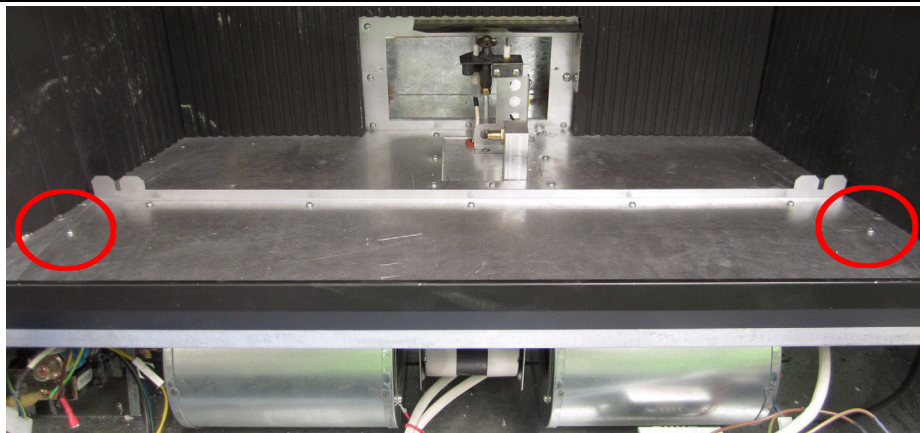
- b. Undo Pilot Supply Tube, Ignition and Sensor Leads (Refer to Image 15).



**Image 15**

### **12) Removal of Fan Assembly**

- a. Remove Ignition System (Refer to Step 2) and Refer to Step 3 (Removal/Disconnection of PCB) and Burner Assembly (Refer to Step 8).



**Image 16**

- b. Remove 14 x screws (Refer to Image 16). Lift off Fan Access Panel, ensuring Air Seal is not damaged.



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

- c. Remove 2 x screws on either side of Fan Mounting Panel (Refer to Image 17).
- d. Disconnect wire connector 2 from main PCB (Refer to Image 6).

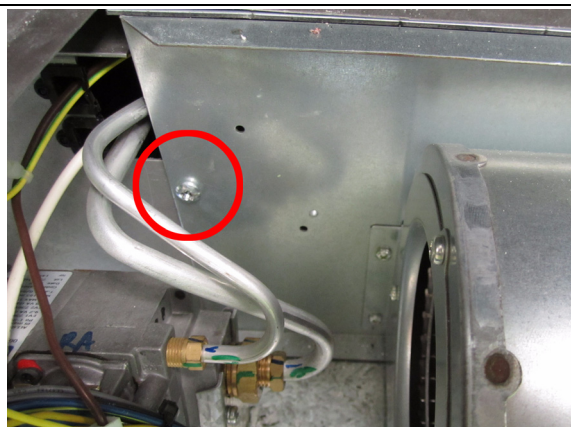


Image 17

- e. Lift Fan Assembly out (Refer to Image 18).
- Reverse order for reassembly of Fan Assembly.



Image 18

### 13) Removal / Replacement of Ignition/Spark and Earth Leads

- a. Remove Fan Assembly (Refer to Step 12).
- b. Disconnect leads from Ignition Pack and Pilot Assembly (Refer to Images 15 and 19).
- Reverse order for reassembly of leads.

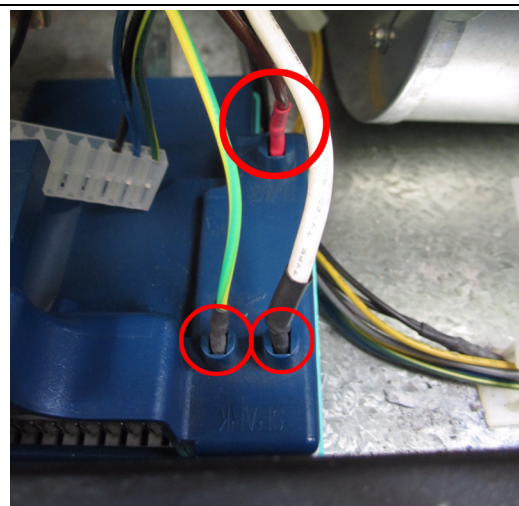


Image 19



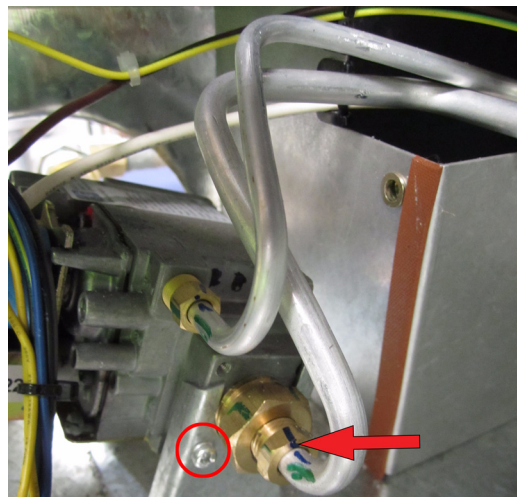
### **CAUTION**

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

#### **14) Replacement of Pilot Tube**

- a. Remove Ignition / Spark and Earth Leads (Refer to Step 13) and Ignition System (Refer to Step 5).
- b. Disconnect Pilot Tube from Gas Valve (Refer to Image 20).



**Image 20**

- c. Disconnect Pilot Tube from Pilot Assembly.
- d. Cut and remove olive and nut from tube end.
- e. Gently pull pilot Tube down through rubber grommet.
- f. Insert new tube through rubber grommet, fit olive and nut and re-fit to pilot.

#### **15) Removal / Replacement of Main Gas Supply Tube**

- a. Remove Ignition/Spark and Earth Leads (Refer Step 13) & Ignition System (Refer Step 5).
  - b. Disconnect tube from Gas Valve (Refer to Image 20).
  - c. Disconnect tube from Injector Block.
- Reverse order for reinstall.

#### **16) Removal / Replacement of Gas Valve**

- a. Remove Main Gas Supply Tube (Refer to Step 15).

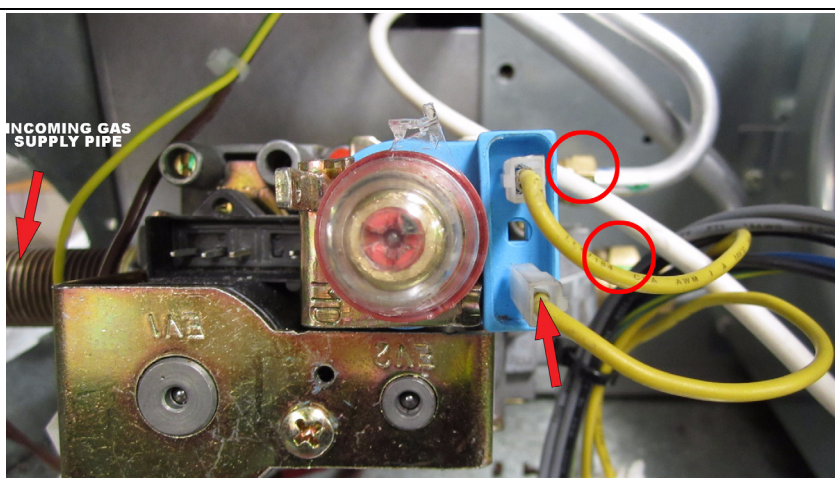


### **CAUTION**

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

- b. Disconnect incoming Gas Supply Pipe located on LHS of valve (Refer to Image 21).
- c. Disconnect Pilot Tube and Burner Gas Supply Tube. (Refer to Image 21).
- d. Remove 2 x screws on RHS of Valve Mounting Bracket (Refer to Image 20).
- f. Disconnect two yellow wires from Modulating Valve (Refer to Image 21).
- g. Lift off Gas Valve.
- Reverse order for re-installation.



**Image 21**

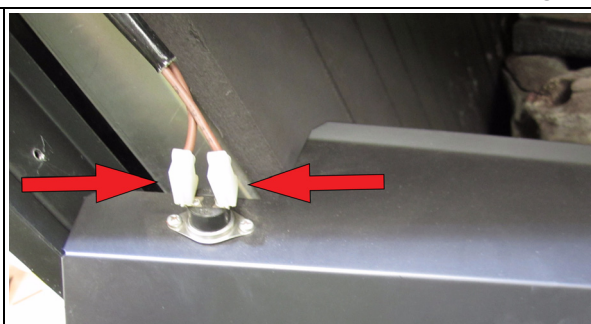
### **17) Removal / Replacement of Overheat Switch**

- a. Remove Front Panel (Refer to Step 1) and Glass Panel (Refer to Step 6).
- b. Remove 4 x screws at top of unit (Refer to Image 22).



**Image 22**

- c. Lift panel up and slide forward and downwards careful not to damage electrical tabs on switch.
- d. Disconnect wires and remove switch (Refer to image 23).
- Reverse order for re-installation.



**Image 23**



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.  
All work should be carried out by qualified service technician

#### 18) Removal / Replacement of Inner Top Heat Shield

- a. Remove Mesh Guard (Refer to Step 1a) and Glass Panel (Refer to Step 6).
- b. Remove 4 x threaded screws and remove Heat Shield taking care not to damage side heat shields (Refer to Image 24).

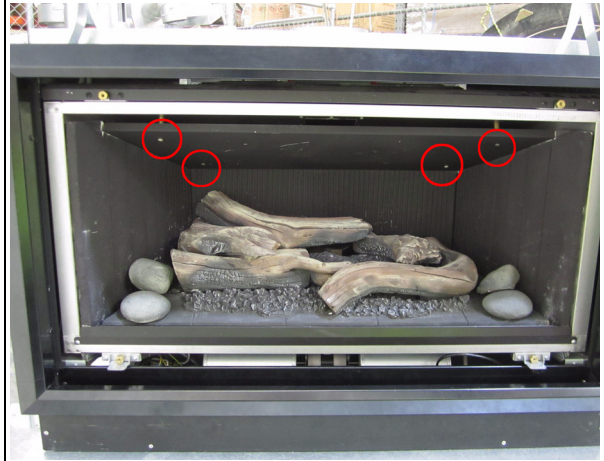


Image 24

#### 19) Removal of Burner Box

- a. Remove Main Gas Supply Tube (Refer Step 15) & Inner Top Heat Shield (Refer to Step 18).
- b. Remove 8 x screws from top of Heat Box (Refer to Image 25) and 9 x screws from rear of Heat Box (Refer to Image 25).



Image 25

- c. Remove 2 x screws either side of bottom edge of Burner Box Assembly (Refer to Image 26).
- d. Remove Fan Access Panel (Refer to Step 12b).
- e. Undo Gas and Pilot Supply Tubes from Gas Valve (Refer to Steps 14a, 15a).

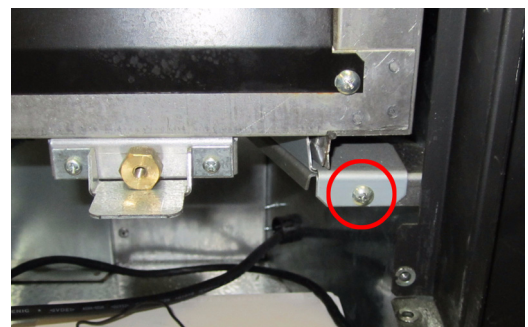


Image 26



### CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

- f. Disconnect Flame Sensing Lead, Spark & Earth Leads from Ignition Box (Refer to Step 5g).
- g. Gently slide Heat Box forward and out.

Reverse order for re-installation. (**Note: new gaskets between Heat Exchanger, Air Duct and Heat Box MUST be used**).

#### 20) Removal of Heat Exchanger

**Please Note: This can only be performed when unit is removed from wall installation.**

- a. Remove Burner Box (Refer to Step 19).
- b. Drill out 1 x pop rivet at centre front of top panel and remove 11 x screws along edge of Top Panel (Refer to Image 27).

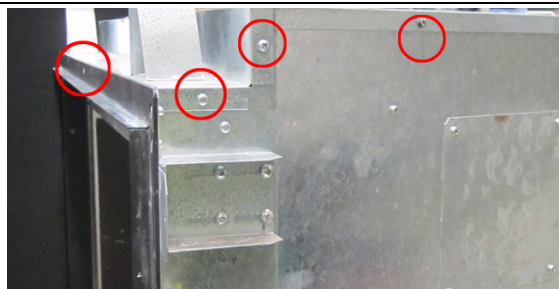


Image 27

- a. Remove Air Chamber Adaptor 10 x screws (Refer to Image 28).

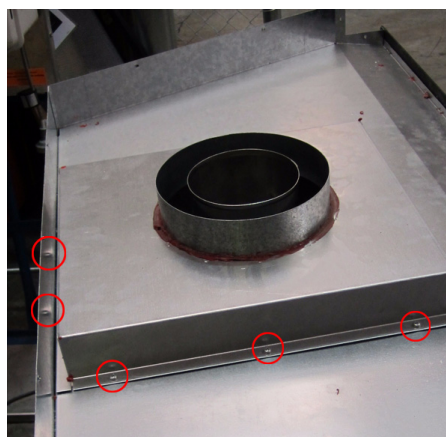


Image 28

- b. Remove 4 x screws from top of Air Duct and 6 x screws from Flue Spigot (Refer to Image 29).

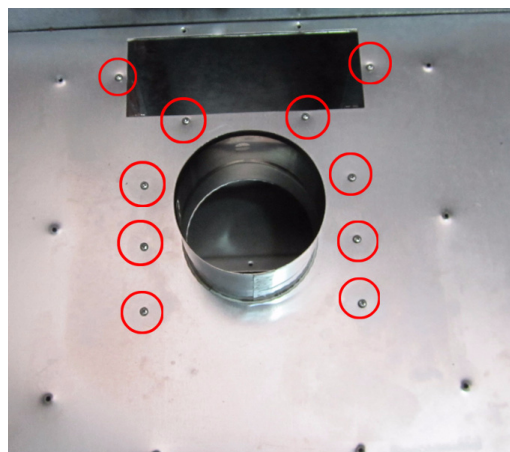


Image 29

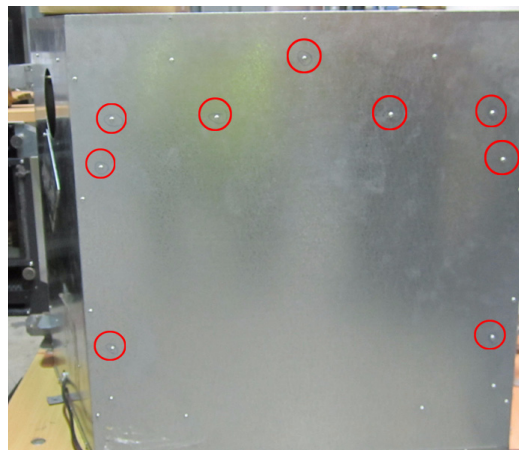


### ***CAUTION***

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

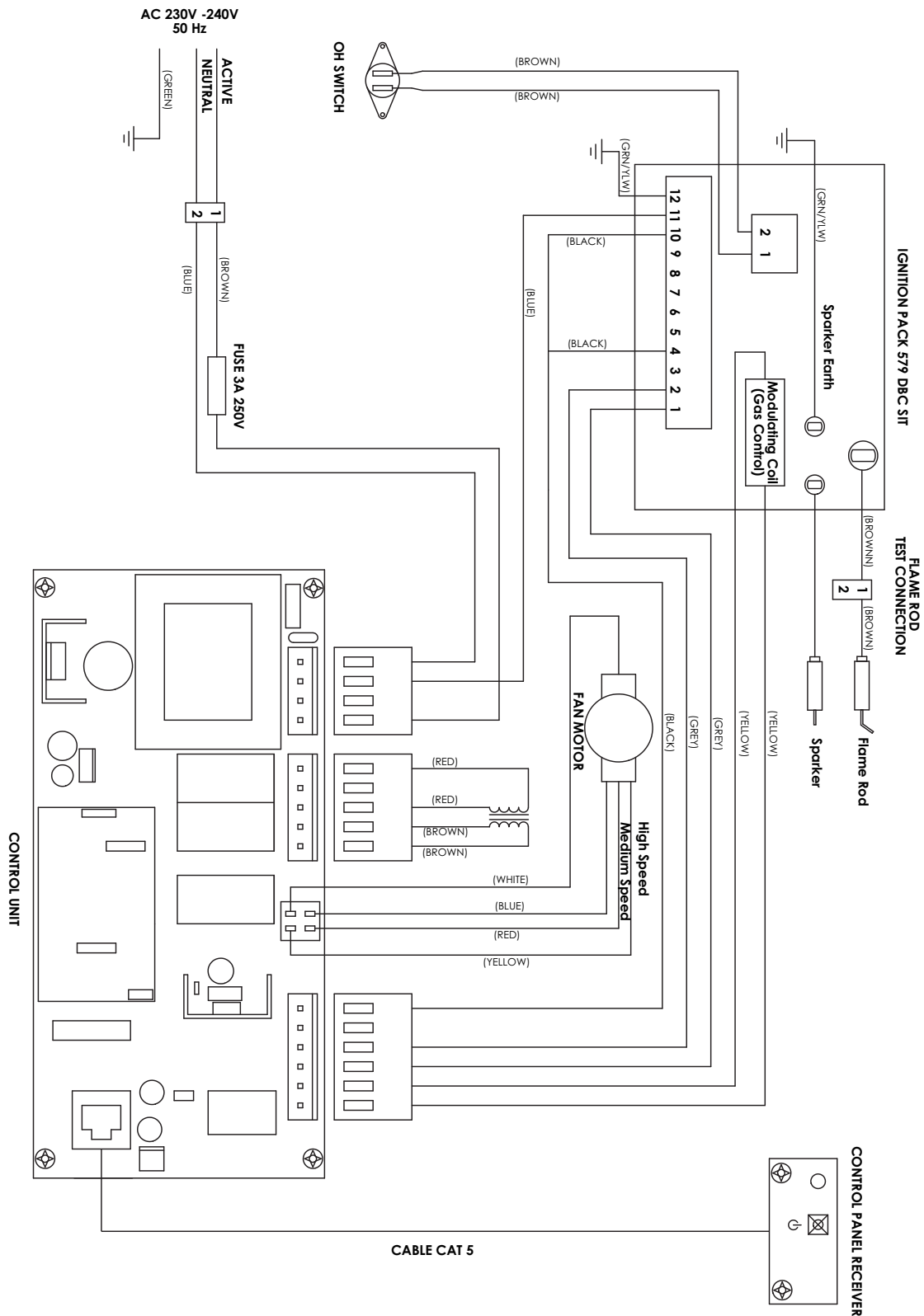
All work should be carried out by qualified service technician

- c. Remove 9 x screws from Back Panel (Refer to Image 30).
- d. Drop down Heat Exchanger and Air Baffle Assembly.
- Reverse order for re-assembly.



**Image 30**

# Wiring Diagram



If the supply cord is damaged or requires replacing, it must be replaced by the manufacturer or the manufacturer's agent or similarly qualified person in order to avoid a hazard. The supply cord must only be replaced with a genuine Rinnai spare part.

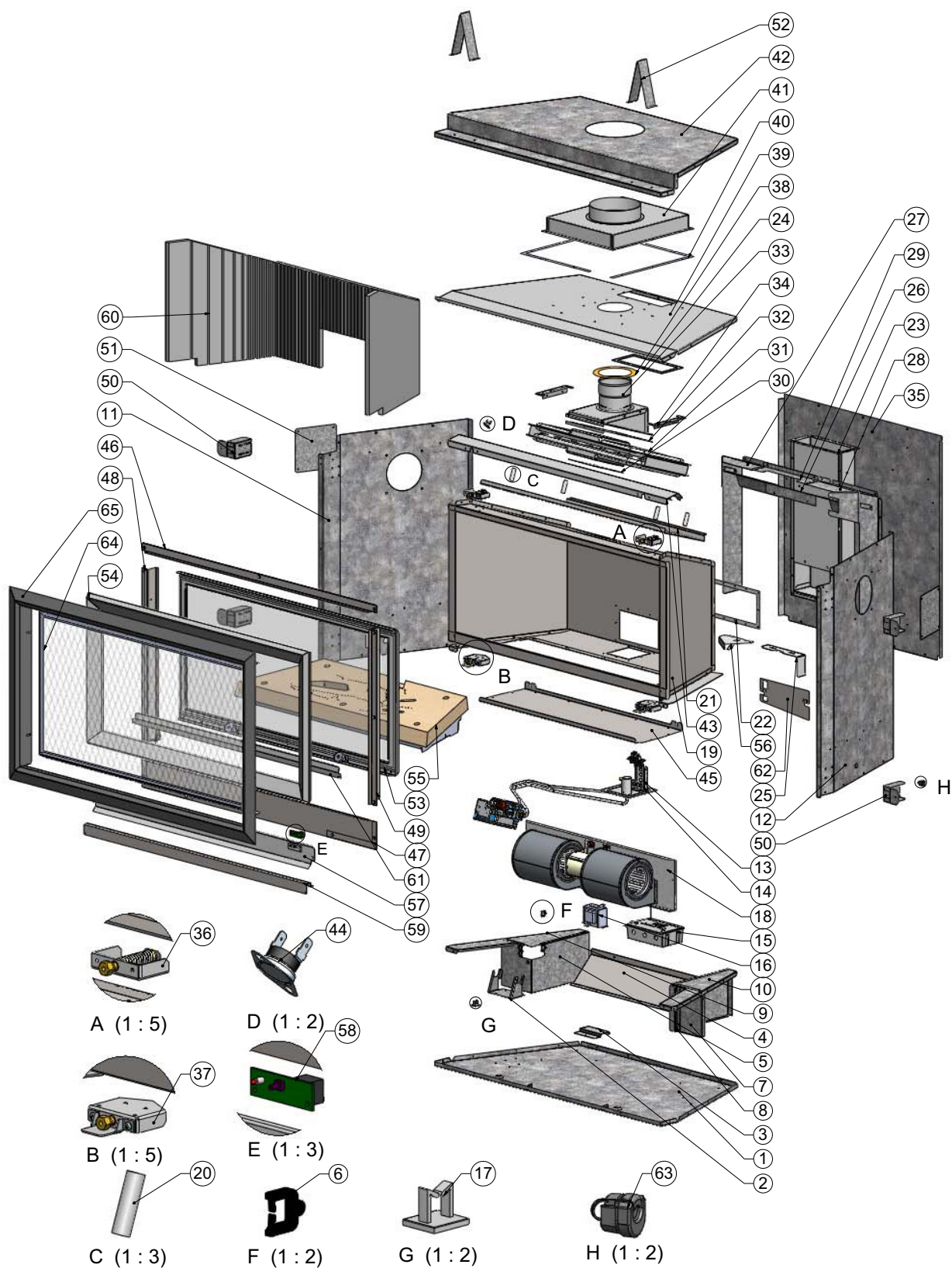
# Exploded Diagrams & Spare Parts List

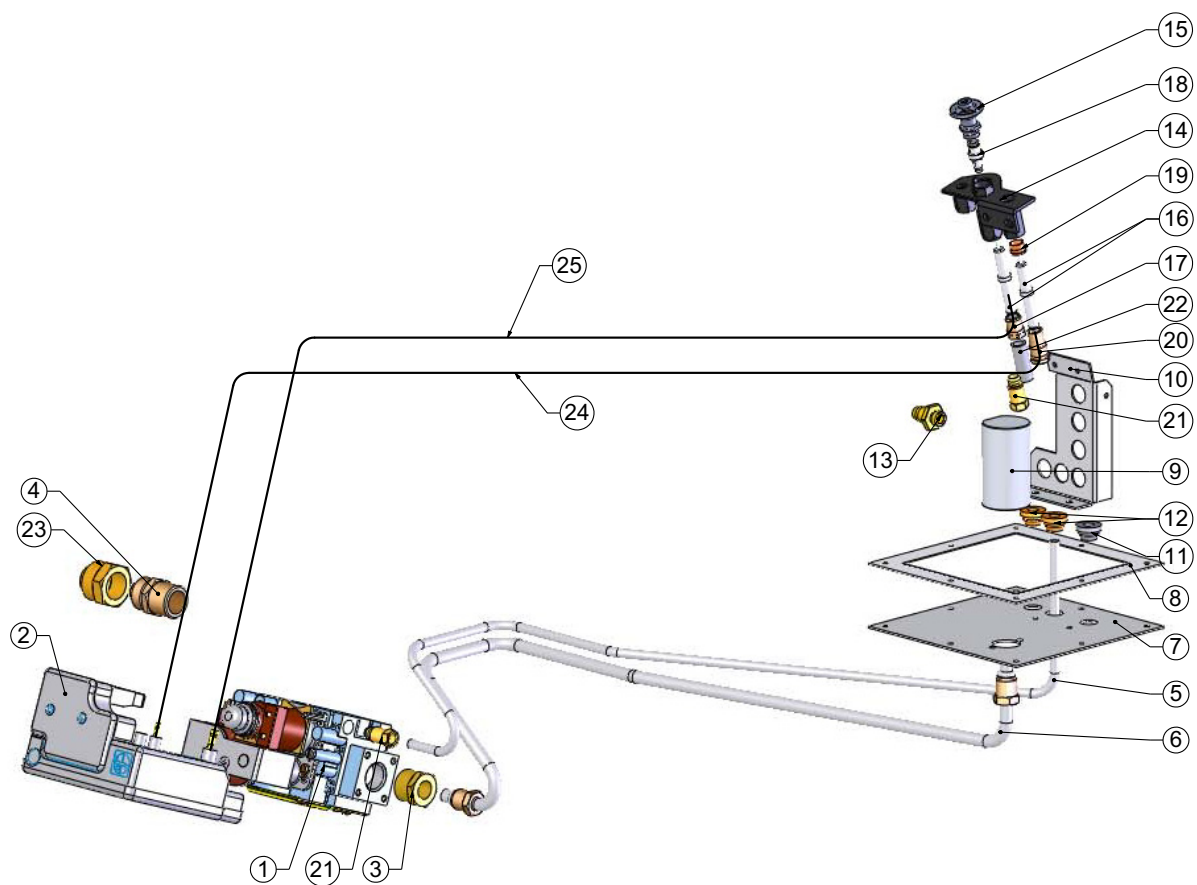
Effective: 15/10/10

| <b>SYMMETRY</b> |                              |                |                      |
|-----------------|------------------------------|----------------|----------------------|
| <b>ITEM NO.</b> | <b>Description</b>           | <b>RA Item</b> | <b>Supplier Code</b> |
| 1               | PANEL BOTTOM                 |                | 11500                |
| 2               | GAS CONTROL BRKT             |                | 11501                |
| 3               | TRANSFORMER BRKT             |                | 11503                |
| 4               | AIR GUIDE BOTTOM             |                | 11505                |
| 5               | FAN BRKT LH ASSY             |                | 11506                |
| 6               | PROTECTOR EDGE PLASTIC       | 90199717       | 1880                 |
| 7               | FAN BRACKET RH               |                | 11507                |
| 8               | FAN SUPPORT ASSY             |                | 11624                |
| 9               | COMB CHAMBER SUPPORT SIDE LH |                | 11510                |
| 10              | COMB CHAMBER SUPPORT SIDE RH |                | 11511                |
| 11              | PANEL SIDE LH                |                | 11512                |
| 12              | PANEL SIDE RH                |                | 11513                |
| 13              | GAS CONTROL ASSY NG          | Refer Line 75  | 11517                |
| 14              | GAS CONTROL ASSY LPG         | Refer Line 75  | 11518                |
| 15              | PCB ASSY                     | 90199721       | 11671                |
| 16              | TRANS                        | 90199723       | 11538                |
| 17              | CABLE CLIP                   |                | 10309                |
| 18              | FAN CONV ASSY                | 90199725       | 11661                |
| 19              | COMBUSTION CHAMBER ASSY      |                | 11550                |
| 20              | COMBUSTION TOP SPACER        |                | 11551                |
| 21              | DEFLECTOR HEAT TOP BLK       | 90199727       | 11552F               |
| 22              | SEAL AIR DUCT OUT            | 90199729       | 11554                |
| 23              | AIR DUCT ASSY                |                | 11555                |
| 24              | AIR DUCT INLET GASKET        |                | 11631                |
| 25              | PILOTCOVER                   |                | 11514                |
| 26              | HEAT EXCHANGER AIR GUIDE     |                | 11556                |
| 27              | AIRGUIDE SIDE LH             |                | 11557                |
| 28              | AIRGUIDE SIDE RH             |                | 11558                |
| 29              | AIR GUIDE CENTER             |                | 11559                |
| 30              | GASKET HEAT EX SQUARE        |                | 10926                |
| 31              | HEAT EXCHANGER ASSY          |                | 11664                |
| 32              | FLUE DISCHARGE GASKET        |                | 11644                |
| 33              | FLUE DISCH&GASKET            |                | 11665                |
| 34              | DISCHARGE HOOD BRACKET       |                | 11509                |
| 35              | PANEL REAR BETTER            |                | 11561                |
| 36              | EXP RELIEF TOP ASSY          | 90199731       | 11662                |
| 37              | EXP RELIEF BTM ASSY          | 90199733       | 11663                |
| 38              | CERAMIC Ø GASKET 140X17X3    |                | 11625                |
| 39              | AIR GUIDE TOP                |                | 11563                |
| 40              | AIRDUCT INLET TOP GASKET     |                | 11642                |
| 41              | AIR INTAKE TOP ASSY          |                | 11565                |
| 42              | PANEL TOP                    |                | 11564                |
| 43              | PANEL COVER RELIEF           | 90199735       | 11572F               |
| 44              | OHS                          | 90199662       | 10637                |
| 45              | COMB CHAM ACC COVR ASSY      |                | 11667                |
| 46              | RETAINER GLASS TOP BLK       | 90199737       | 11575B               |
| 47              | RETAINER GLASS BTM BLK       | 90199739       | 11576B               |
| 48              | RETAINER GLASS LH BLK        | 90199741       | 11577B               |
| 49              | RETAINER GLASS RH BLK        | 90199743       | 11578B               |
| 50              | BRACKET MOUNTING             | 90199745       | 11582                |

Effective: 15/10/10

| ITEM NO.           | Description                       | RA Item  | Supplier Code |
|--------------------|-----------------------------------|----------|---------------|
| 51                 | COVER PLATE                       |          | 11583         |
| 52                 | SPACER BRACKET TOP                |          | 11584         |
| 53                 | PANEL GLASS ASSY                  | 90199747 | 11668         |
| 54                 | FRAME INNER                       | 90199749 | 11590GL       |
| 55                 | BURNER ASSY                       | 90199751 | 11611         |
| 56                 | COVER BURNER ASSEMBLY             |          | 11669         |
| 57                 | PANEL SERVICE REAR                | 90199755 | 11670         |
| 58                 | SWITCH MNL CONTROL                | 90199757 | 11628         |
| 59                 | PANEL SERVICE FRONT               | 90199759 | 11580GL       |
| 60                 | LINERS CERAMIC PINSTRIPE          |          | R3615         |
| 61                 | PANEL BURNER COVER                | 90199763 | 11581F        |
| 62                 | FLUE RESTRICTOR                   | 90189924 | 11516         |
| 63                 | POWER CORD HOLDER                 |          | 7845          |
| 64                 | DRESS GUARD ASSY                  | 90199765 | R3610GL       |
| 65                 | OUTER FRAME BLK                   |          | R3600GL       |
| NOT DRAWN          | LOG SET                           | 90199771 | 11600         |
| NOT DRAWN          | HARNESS WIRING                    | 90199769 | 11595         |
| NOT DRAWN          | ELEC CORD                         | 90199688 | 6765B         |
| NOT DRAWN          | HARNESS PCB TO CTRL CAT5          | 90188035 | 10631         |
| NOT DRAWN          | HARNESS OHS                       | 90195111 | 10654         |
| NOT DRAWN          | HARNESS OHS                       | 90199767 | 11594         |
| NOT DRAWN          | REMOTE                            | 90199773 | 11674         |
| <b>GAS CONTROL</b> |                                   |          |               |
| ITEM NO.           | Description                       | RA Item  | Supplier Code |
| 1                  | GAS CONTROL LP/NG                 | 90199761 | 10600         |
| 2                  | SPARKER                           | 90199597 | 10601         |
| 3                  | ADAPTOR 1/2" BSPT                 | 90199701 | 11589         |
| 4                  | FLARE CON. 1/2" MALE BSPT-1/2"BSP |          | 11633         |
| 5                  | TUBE PILOT                        | 90199703 | 11525         |
| 6                  | TUBE MAIN GAS ASSY                | 90199705 | 11527         |
| 7                  | PILOT BASE                        |          | 11529         |
| 8                  | GASKET HEAT EX SQUARE             |          | 10926         |
| 9                  | INJECTOR BLOCK                    |          | 11530         |
| 10                 | PILOT BRACKET                     |          | 11531         |
| 11                 | GROMMET SILICON 2Ø1.8 HOLE        |          | 10294         |
| 12                 | GROMMET SILICONE Ø4 HOLE          |          | 10293         |
| 13                 | INJECTOR 3.0 NG                   | 90199707 | 11532         |
| 13                 | INJECTOR 1.7 LP                   | 90199709 | 11534         |
| 14                 | PILOT BODY TOP CONVERTIBLE        |          | 7870          |
| 15                 | PILOT HEAD                        | 90199803 | 7871          |
| 16                 | ELECTRODE                         | 90199746 | 7875          |
| 17                 | ELECTRODE NUT                     |          | 7876          |
| 18                 | INJ PILOT NG                      | 90199955 | 7795          |
| 18                 | INJ PILOT LP                      | 90199956 | 7873          |
| 19                 | SPACER ELECTRODE PILOT            |          | 7902          |
| 20                 | ELECTRODE NUT ETR                 |          | 7900          |
| 21                 | OLIVE 6mm                         | 90197377 | 7519          |
| 22                 | SILICONE TUBE 25x9.5x6.4          |          | 11641         |
| 23                 | NUT 1/2 COMPRESSION               |          | 5064          |
| 24                 | HT LEAD                           | 90199711 | 11596         |
| 25                 | LEAD SENSOR                       | 90199715 | 11598         |
|                    |                                   |          |               |





# Rinnai

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Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires service, please call our Help Line. Rinnai recommends that this appliance be serviced every 2 years.

Internet: [www.rinnai.com.au](http://www.rinnai.com.au) E-mail: [enquiry@rinnai.com.au](mailto:enquiry@rinnai.com.au)

## National Help Line

### Sales & Service

Tel: 1300 555 545\* Fax: 1300 555 655\*

*\*Cost of a local call. Higher from mobile or public phones.*