

VERMONT CASTINGS

ENCORE

REMOVAL AND ADJUSTMENT OF FRONT-LOADING DOORS

GENERAL INFORMATION 19-04-23

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1. HEALTH AND SAFETY.

1.1 CONTROL OF SUBSTANCES.

Take great care when handling materials such as insulation boards, glass fibre ropes, ceramic wool, artificial fuel, **kerosene and diesel oil**, they are all irritants and suitable protective clothing such as disposable gloves dust masks and protective goggles should be worn.

Wash off thoroughly after handling any of these materials.

Carefully dispose of redundant or surplus materials and always vac up after service or installation work.

Before any work is carried out the appliance must be left to fully cool down and all hot embers must be removed to avoid any risk of burn injuries.

Before starting any work make sure that the work area is adequately dust sheeted up.

2. APPLICABLE REGULATIONS.

Maintenance work must be carried out by a technically competent person.

3. INTRODUCTION.

Before removing any ropes make sure you have a good understanding of where replacements are to be fitted and make sure that after removal of the old ropes the rope sockets are properly cleaned out ready to accept the new adhesive and rope gaskets.

Both doors have a semi-circular depression designed to accept a glass fibre sealing rope which forms a sealing gasket for each door.

On the left-hand door, the sealing rope is routed up the centre vertical socket to for a complete seal.

On the right-hand door, the rope is allowed to run down the first section of the top vertical door edge.

4. DOOR REMOVAL.

This is a simple procedure but before starting make sure that you have a suitable soft towel or similar to put the door-doors on after removal.

Fig 1. To remove the doors first open them to a 90-degree position and place one hand under the bottom edge of the door and one on the top of the door and gently lift the door up vertically free from its bottom hinge.

Fig 2. With the bottom hand, pull the door out and away from the stove whilst at the same time lowering the door down and out from its top hinge.

Repeat the process on the other door.

5. HINGE ADJUSTMENT.

If the doors do not shut nicely the hinge pins may need replacing or adjustment in each case adjust as follows.

The hinges are held in position via a cast iron clamping plate, two hexagon head setscrews and two flat washers.

To remove the hinge pins, undo the two set screws and lift the clamping plate.

The bottom edge of top hinge is located in a cast depression in the door and the bottom hinge has the raised diameter at the bottom to form a dead stop for setting the door height.

To re establish the correct door position, adjustment of the hinges is required.

Fig 4. Before making adjustments, when the door is in its correct position the raised cast edge forming a margin around the door opening will be pressing into the centre of the door sealing rope and the centre vertical edge will be at right angles to the stove bottom horizontal door opening otherwise the doors will catch at the top or bottom depending upon the miss adjustment.

Adjustment requires patience and observation as follows, it's not easy!

Fig 5. Set the start position of the bottom hinge is 10mm from the bottom edge of the door, to achieve this fit both hinges with the bottom hinge 12mm out from the bottom edge of the door and just nip the two fasteners tight enough to hold the hinge pins in the initial set position but not too tight to prevent procedures in **Figs 6 and 7.**

After a good vertical door centre setting has been achieved the locking fasteners can be fully tightened.

Gently tap the bottom hinge back into door casting to the starting 10mm protrusion.

The bottom hinge pin should now put the door into its correct height position (X axis) and now we have to get centre joining position (Y axis) and the centre joint gap right

To try and set the joining edges of the doors vertical to create a parallel gap when the door is closed, using a flat bladed driver, the door casting can be moved either in or out depending upon the requirement of the centre vertical alignment of the door centre joint and the door sealing pressure applied by the sealing rope, if we move the casting away from the stove body the fit will be less tight, if we move the door towards the stove the rope fit will be tighter.

After a good vertical door centre setting has been achieved the locking fasteners can be fully tightened.

Fig 8 which indicates what we are trying to achieve; a vertical door edge.

Fig 6. Using a flat bladed driver, the bottom of the door can be moved out.

Fig 7 Using a flat bladed driver the top of the door can be moved in.

Figure 1 Lift the door off its bottom hinge pin.



Figure 2 Swing the bottom of the door out and down.



Figure 3 Door is free from stove with clamp and fasteners clear to see.



Figure 4 Raised cast edge on to which the rope seals.



Figure 5 Set 12 mm to bottom of hinge pin and tap back to 10mm.



Figure 6 Moves the closed door towards the centre of the stove.



Figure 7 moves the closed door away from the centre of the stove.



Figure 8 Check the vertical alignment of the door.



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BUBBLE STOVES