

# Dean Stoves

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## Operating Instructions For The Dean Forge Clearburn Junior Inset Stove

**All stoves meet the essential type test requirement BS EN13229:2001 + A1:2003 +A 2:2004**

### **Safety Note**

**Warning-** The external parts of the appliance will get very hot to the touch and due care will be needed when operating.

All stoves before being operated must be checked that the installation complies to all local, national and European standards.

Before the stove is first used or when fitting other appliances into the room, please check that adequate air vents are in place to cover the requirements of such appliances.

**Extractor fans** when operating in the same room or space as the appliance may cause problems.

### **Wood & Suitable fuels**

**Dry wood, 18% moisture content or below must be used or the stove and flue will tar up and the door won't stay clean.**

Wood is best seasoned by splitting it into a log and drying it out for 2 years in a covered area so the air can pass through to dry it out. Peat can also be used but must be dry.

**When used as a Multi Fuel use only fuels recommended for enclosed appliances.**

**Please Note:** Appliances should not be used as general incinerators or with non-recommended fuels. **At no time** should liquid accelerants I.e: Paraffin, Petrol, BBQ lighting liquid Etc be used.

The chimney needs to be swept at least once a year.

## Door Operation

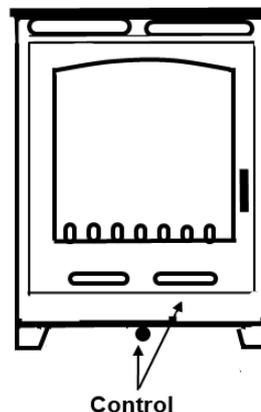
The door handle bar option can become very hot so use the glove provided. When closed the handle will be at approximately 45° away from the door, about ¼ of a turn anti-clockwise to open.

## Controlling the stove

**Diagram A:**

**Primary air controls** on front of door.  
**Secondary air control** below the ash shelf

The primary air control slides on the door are for lighting the fire or to bring it back to life when died down, but the main control when burning Solid Fuel



The secondary air wash control lever situated under the ash catch lip controls the preheated air wash when burning wood and once the fire in the stove is established this is the control that should be used to control the fire.

This control knob works as follows:

Fully in for maximum air flow into the stove and fully out for airflow to be shutdown.

The stove is at its maximum efficiency when the lever is approximately half way.

## Lighting The Stove with Wood

Lay a fire of sticks and paper. Firelighters can be used if necessary. Check the secondary air lever is fully open and the primary air vents partially open. Light the fire and as the fire catches the paper you may then fully open the primary air vents.

When the fire has fully established and the logs are burning well shut the primary air vents in the door and control the fire with the secondary air wash lever (if you are unable to sustain the fire with secondary control it is very likely that your logs have a high moisture content).

For longer periods of burning fill the firebox with wood and make sure the primary air vents are closed and the secondary air control is out fully.

Please Note: For long periods of burning you will need to use seasoned hard wood. Longer periods of burning may cause the door glass to blacken, but this can be cleared when you get the fire back up to temperature and providing the secondary air control is slightly open this will then stay clear.

When loading the fire be careful not to leave logs projecting over the log retainer as you may crack the glass when closing the door.

When the stove is in use in the winter season we suggest 25mm (1") of ash is left in the bottom when cleaning, as a wood fire burns more efficiently on a bed of ash.

If in continuous use the stove will most probably only need de-ashing every 2-3 Weeks. This is achieved by removing the log retainer and the plate under the door and shovelling the ash out into a **non-flammable container**, or we suggest using an ash clean attachment which can be plugged into your vacuum cleaner.

### **Lighting the stove with Solid Fuel**

Lay a fire of sticks and paper, establish fire and then add the appropriate smokeless fuel and use the primary air control as the main control, if using a mixture of wood and coal balance the primary and secondary controls to achieve the desired fire.

The stove when being used as a Solid Fuel stove must only use fuels recommended for enclosed appliances, Oil derivative fuels must not be used as this will shorten the life of the grate.

The Ashpan will need emptying once a day.

The stove will work best using the primary air control (door vents) it is unlikely you will need to use the secondary air control which will only need to be opened slightly to keep the glass clear.

In the summer or when the stove is not being used for a long period of time, clear all the ash out and leave primary and secondary air vents open to prevent condensation.

#### **Please Note:**

On lighting the paint on the stove will cure and give off a metallic smell. It is advisable to ventilate the room ie. open the windows. This will subside fairly quickly after the stove has been burning hot for at least 2 hours.

The appliances have been assessed and are suitable for intermittent burning.

### **Pre-Season Check:**

Before lighting at the beginning of the season or after prolonged shutdown periods, check the door seals are in good condition; the bricks are not cracked or missing and baffle plate is in position.

The chimney must be checked at this stage for blockages before lighting i.e: bird's nests.

This is probably the time to have the chimney swept before the beginning of the seasons use. If the stove has been used for a long period of time we suggest the chimney be swept twice a year.

## **Notes**

### **Down draughts**

In adverse weather conditions down draughting may occur and will make the stove smoke, shut the stove down.

If this occurs on a regular basis call in your engineer.

It is possible a chimney cowl will cure the problem.

### **Air vents**

Check periodically that the exterior ventilation grill is clear.

### **Servicing**

Servicing needs to be carried out by a competent engineer on a regular basis.

No unauthorised modifications of the appliance should be carried out.

Use only replacement parts recommended by the manufacturer.

### **Refuelling**

Doors should always be closed in between refuelling to prevent fumes and spillage from the firebox.

### **Faultfinding**

If the stove emits fumes 90% of the time this will be caused by a blocked or restricted flue.

It is also worth checking the external air vent.

It is possible that the baffle plate has dislodged itself from the stove.

If the stove does not perform properly this could be due to unseasoned wood or to much ash in the firebox.

In the case of the stove malfunctioning shut all vents, open the windows and let the residual fuel in stove burn out.

### **In the event of a chimney fire**

- Call the fire brigade
- Raise the alarm to let others in the house know
- Close down all the air controls of the stove, but be careful they could be very hot
- Move furniture, rugs and other objects away from the stove
- Check the chimney breast in other rooms for signs of excessive heat and move objects away if necessary
- At all times consider the safety of yourself and others in taking the above action

# **Fitting Instructions For The Dean Forge Clearburn Junior Inset Stoves**

**These fitting and operating instructions cover the clearburn Junior Inset Stove.**

## **Introduction**

The Dean Forge Clearburn range of stoves has evolved and has been continuously updated for the last 30 years. These stoves have a robust fully welded carcass with a cast iron double glazed door. These stoves have a ceramic brick lining incorporating a preheated air wash system with an angled top outlet 125mm (5”).

Before lighting check that all installation instructions have been carried out.

## **Health And Safety Precautions**

All work must be carried out to the requirements Health and Safety at Work Act 1974.

There must not be an extractor fan fitted in the room.

There must be an air vent for all stoves of 5 kilowatt and over to meet current building regulations.

Stoves must be fitted to BS8303, BS6461 PT1-2 1984 building regulations.

All local regulations, including those referring to national and European standards need to be complied with when installing the appliance.

N.B

A suitably qualified person, such as a HETAS engineer or with the supervision of building control, must fit stove.

**As with all stoves fireguards must be provided for young children.**

## **Stove Performance**

Croft Clearburn Junior Inset Wood Burning                      5kw nominal    80.3% Net Efficiency

Croft Clearburn Junior Inset Solid Fuel (ancit)                      4.7kw nominal    73.2% Net Efficiency

All stoves are tested to nominal outputs and will well exceed these kilowatt ratings.

## **Chimney**

All croft clearburn stoves must have a chimney at least 4m from the outlet, the chimney outlet must not be less than 150mm (6”).

These stoves are not suitable to be used in a flue-shared situation.

If the chimney draw is too much a stabilizer will have to be fitted. When the chimney is warm the draw should not be less than 0.10 water gauge.

All appliances have been tested at 12 PA with the doors closed.

This stove must always be fitted with a liner and the baffle plate can be removed to facilitate cleaning through the stove.

## **Hearth, Surround and Register Plate**

The stove must stand on non-flammable material at least 12mm thick (1/2"). The hearth must extend at least 300mm in front of the firebox and 150mm to the sides.

The stove is designed to fit into a non combustible chimney opening, If a combustible mantel piece is to be fitted to the fireplace it should be 250mm above the top of the stove and 250mm at the sides these are minimum distances.

The appliance must be installed on a floor with an adequate low bearing capacity.

If the construction doesn't meet the existing prerequisite the floor must be reinforced and a load distributing plate could be fitted.

## **Flue Connections and Outlets**

Dean Croft Clearburn Inset stove can be flued from its angled top outlet

The Croft Junior Inset model requires a 150mm 6" Flue after the initial length of flue. The installation of a flue liner is strongly recommended.

Diagram of flue outlet

- A- Hole drilled for Multi Fuel riddling arm
- B- Outlet 125mm (5")

## **Table of mean flue temperatures with closed doors**

<b>Stove Type</b>	<b>Flue gas temp down stream of spigot, closed doors.</b>
<b>Croft Clearburn Junior Inset Wood Burning</b>	226C
<b>Croft Clearburn Junior Inset Solid Fuel (Ancit)</b>	220C

## **Flue Gas Mass Flow**

<b>Stove Types</b>	<b>Flue gas mass flow (gs)</b>
<b>Croft Clearburn Junior Inset Wood Burning</b>	4.6
<b>Croft Clearburn Junior Inset Solid Fuel (Ancit)</b>	5.7

## **Pre – Lighting Check and Commissioning**

Check all Building Regulations have been adhered to.

The baffle plate is in the right position.

A smoke test has been done to check the chimney is clear.

## **Data Plate**

All stoves are numbered and performance marked on a data plate which is found on a swinging arm located at the base of the stove.

## **Air Vent**

Under part J of building regulations an air vent of the appropriate size must be fitted for all stoves with a kw rating of over 5kw.

Very air tight properties designed with air permeability less than or equal to 5.0 m<sup>3</sup>/ (h.m<sup>2</sup>) per hour, an air vent will need to be fitted for all kilowatts.

It must be considered when fitting air vents that it is taken into account any other appliance fitted within the room.

**Please Note:** Extractor fans when operating in the same room or space as the appliance may cause problems.

Air vent inlet grills must not be inadvertently blocked.

Air vents must not be fitted in positions where they can be inadvertently covered up.

As from the 1<sup>st</sup> October 2010 a compliant Carbon Monoxide Alarm must be fitted

## **Unpacking Stove**

The baffle plate will be found on the base of the stove and will need to be positioned as per diagram. Check position of bricks. Secondary air control knob will be inside the stove and will need screwing on and comes with a gauntlet and fire cement.

## Multi fuel kit fitting instructions

Fitting of M/F kit for Croft Clearburn Junior Inset

### Croft Clearburn Junior Inset



This M/F kit consists of five parts:

- A. Centre Grate
- B. Main Grate
- C. Riddle bar
- D. Knob for riddle bar
- E. Ash pan tool
- F. Ash Pan
- G. 3x Rear Bricks 9"x 4 1/2" x 1 1/4" not shown

#### **To fit:**

Remove the front panel under the door and log retainer. Replace rear bricks with new thicker bricks supplied in kit.

With the rope seal on the main grate (**B**) facing you tilt the main grate clock wise, insert into stove lowering so the right hand side is under the brick retaining angle and the left hand leg slides down between the first brick and a bar that is welded to the stove. Level the main grate (**B**) then slide it the rest of the way into the stove. The front main grate (**B**) should now sit on the these bars on each side at the front.

Remove the blanking bolt on the right hand side of the stove body and slide the Riddle bar (**C**) through the hole. Fit the Centre grate (**A**) with the arm facing forwards, tilt so you are able to insert the riddle bar (**C**) through the top of the hole in the arm then screw the Knob for riddle bar (**D**) on the end of riddle bar (**C**) outside the stove.

Fit ash pan and front plate below door. Your existing wood burning log retainer is not used with the M/F kit.

## EC Declaration Of Conformity

The Undersigned, representing the following:

<b>Manufacturer</b>
<b>Dean Forge Ltd</b> Dean Prior, Buckfastleigh, Devon, TQ11 0LS

Herewith declare that the products:

Description	Product Code
Croft Clearburn Junior	STDFCRJL, STDFCRJ
Croft Clearburn Junior Inset	STDFCRJIN
Junior 105 SE	STDFJ105L, STDFJ105H, STDFJ105HWD
Croft Clearburn Slimline 5 SE	STDFCRSL5
Croft Slimline 6	STDFCRSL
Croft Clearburn Small	STDFCRSM, STDFCRSML
Croft Clearburn Medium	STDFCRM, STDFCRML
Croft Clearburn Large	STDFCRL

### **Description of product:**

Croft Clearburn wood and multifuel heating stove product range.

Steel bodied stove fitted with cast iron doors. Supplied in various sizes to give a range of heat output options.

Are in conformity with the provisions of the following EC Directive (S) when installed in accordance with the installation instructions in the product documentation:

98/106/EEC- 305/2011 Construction Products Directive

And the standards referenced below have been applied:

EN 13240: 2001 + Amendment A2: 2004 & inset BS EN13229:2001 + A1: 2003 + A2: 2004

Provisions to which the product conforms:

Product: Roomheater fired by solid fuel as covered under the scope of the standards listed. Intended use: Space heating in residential building.		
Characteristic	Performance	Report
Fire Safety	Satisfies	
Emission of combustible products and Thermal output/Efficiency	Croft Clearburn Junior- STDFCRJL/ STDFCRJ Co @ 13% O <sup>2</sup> Wood 0.31% Ancit 0.34% 5Kw @ 83% Wood – 5Kw @ 66.2% Ancit	6348-01
	Croft Clearburn Junior Inset- STDFCRJIN Co @ 13% O <sup>2</sup> Wood 0.35% Ancit 0.40% 5Kw @ 80.3% Wood -4.7Kw @ 73.2% Ancit	6700-1
	Junior 105SE- STDFJ105L/ STDFJ105H/ STDFJ105HWD co@ 13% O <sup>2</sup> Wood 0.31% Ancit 0.34% 5.3Kw @ 75.7% Wood -5Kw @ 66.2% Ancit	6931-SE-2
	Croft Slimline 5- STSFCRSL5 Co @ 13% O <sup>2</sup> Wood 0.28% Ancit 0.30% 5Kw @ 81.6% Wood – 4.9Kw @ 75.8% Ancit	6042-1
	Croft Clearburn Slimline 6- STDFCRSL 6 Co@ 13% O <sup>2</sup> Wood 0.37%- 6Kw @ 79.6% Wood	6348-04
	Croft Clearburn Small- STDFCRSM/ STDFCRSML Co@ 13% O <sup>2</sup> Wood 0.28%- 8.2Kw @ 76.2% Wood	6348-02
	Croft Clearburn Medium- STDFCRM/ STDFCRML Co@ 13% O <sup>2</sup> Wood 0.44%- 11.4Kw @ 75.9% Wood	6348-03
	Croft Clearburn Large- STDFCRL Co@ 13% O <sup>2</sup> Wood 0.22%- 13.9Kw @ 72.9% Wood	6700-2
Release of dangerous substances	None	
Surface temperature	Satisfies	
Mechanical resistance (to carry a chimney/flue)	Maximum weight to be supported 30Kg	

Test laboratory: 0692

Name: M.P Chew

Signature:



Position: Technical Director (s)

Date: 24<sup>th</sup> September 2012



## **THE DEAN FORGE FABRICATION LTD STOVES GUARANTEE**

Dean Forge Fabrication Ltd offers a five year guarantee which covers the main body of the stove for manufacturing defects.

In the event of any failure we will replace any defective part free of charge, labour cost excluded.

This guarantee is invalid if the stove is not assembled, installed or operated as per these instructions or properly maintained or does not comply with current building regulations and any regional legislation in force at the time.

Dean Forge Fabrication Ltd does not guarantee the onsite assembly, installation or operation of the stove. Please seek advise from your supplier / installer for any relevant guarantees applicable to the installation.

Dean Forge Fabrication Ltd will not be held liable for any consequential or incidental loss, damage or injury, however caused.

Claims under this guarantee should be first made through your retailer.

This guarantee is only applicable in the UK.

Nothing in this guarantee shall effect your statutory rights.

### **Exclusions**

The following consumable parts are not covered by this guarantee:-

Fire grate, log retainer, baffle plate, fire bricks, glass panels and door seals.

Paint is also excluded from the guarantee as it will eventually deteriorate due to the normal working of the stove.

Your assistance is requested by filling in and returning the product Registration and Guarantee Form. This will help maintain our records and assist us in identifying your stove in the unlikely event of any problem occurring and also when you need to order any spare parts.

**Dean Forge Fabrication Ltd**  
**Dean Prior**  
**Buckfastleigh**  
**Devon**  
**TQ11 0LS**

# PRODUCT REGISTRATION

Name .....

Address .....

.....

..... Phone Number: .....

## Suppliers Details:

Name .....

Address .....

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..... Phone Number: .....

## Installers Details:

Name .....

Address .....

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..... Phone Number: .....

Date of Purchase: ..... Date of Installation:.....

Stove Serial No: ..... Model .....