



iBOX™
Program Transfer Box
Model No. A4250

User Instructions

GENERAL.

The iBOX program transfer box, model #A4250, is an optional accessory for the VIP Universal series furnaces that is used to transfer all firing programs from one furnace to another furnace and/or to store a back-up copy of the firing programs in a furnace. The iBOX program transfer box connects to the parallel port (printer) on the rear of the furnace. See Figure 1.

The furnace (software Rev D or later) supports the following three iBOX operations:

COPY FURNACE -> iBOX.

This operation is used to copy all firing programs from the furnace to the iBOX. Any programs previously stored in the iBOX will be overwritten with programs from the furnace.

COPY iBOX -> FURNACE.

This operation is used to copy all firing programs stored in the iBOX to the furnace. Any programs previously stored in the furnace will be overwritten with programs from the iBOX.

VIEW/COPY iBOX -> FURNACE.

This operation is used to view the firing programs stored in the iBOX first and, then if desired, to copy all programs from the iBOX to the furnace.

OPERATION SELECTION.

Follow the steps below to select the operation to be used by the iBOX program transfer box:

1. Press the **PROGRAM SELECT** key, enter special program #620 and then press the **ENTER** key on the furnace. The furnace LCD displays the message shown below indicating that the desired iBOX operation must be selected: ** **SELECT OPERATION** **

COPY FURNACE -> iBOX ?

2. If it is desired to perform the **COPY FURNACE -> iBOX** operation, then press the **ENTER** key. If not, then press either the **0 (▲)** or **CLEAR (▼)** key to scroll to the desired operation such as **COPY iBOX -> FURNACE** or **VIEW/COPY iBOX -> FURNACE**. Press the **ENTER** key when the desired operation is displayed on the LCD.
 3. When either the **COPY FURNACE -> iBOX** or **COPY iBOX -> FURNACE** operation is selected, perform the copy procedures on page 2. Perform the View/Copy procedures provided on page 3 when the **VIEW/COPY iBOX -> FURNACE** operation is selected.
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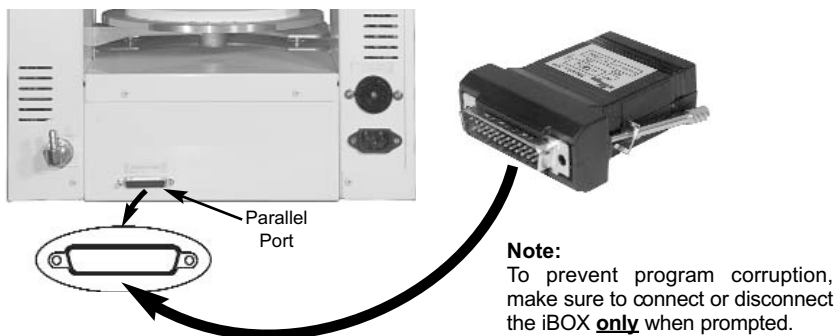


Figure 1. Parallel Port Location on Furnace Rear Panel

COPY OPERATION PROCEDURE.

Follow the steps below to copy programs between the iBOX and furnace when either the **COPY FURNACE -> iBOX** or **COPY iBOX -> FURNACE** operation is selected.

Important: The iBOX must be connected to and disconnected from the furnace when the corresponding prompts are displayed on the furnace LCD to prevent corruption to programs stored in the iBOX.

1. The furnace LCD will display a **** CONFIRM OPERATION **** message requesting confirmation before the operation is actually performed. Press the **ENTER** key to proceed with the operation or press the **CANCEL** key to abort the operation in case the wrong selection was made.
2. The furnace LCD will display a **CONNECT iBOX** message indicating that the iBOX must now be connected to the furnace parallel port. Connect the iBOX and then press the **ENTER** key to proceed. Alternatively, the **CANCEL** key may be pressed to abort the operation.
3. The furnace LCD will display a **COPYING FURNACE -> iBOX** or a **COPYING iBOX -> FURNACE** message while the corresponding operation is being performed (about 3 seconds) and then will briefly display **COPY OPERATION COMPLETED** message to indicate that the operation was completed successfully.

Note: If a **COPY OPERATION FAILED** message is displayed, then the furnace was not able to copy programs TO or FROM the iBOX.

If one of the following messages is displayed **iBOX IS BLANK** or **iBOX PROGRAMS CORRUPTED** or **iBOX/FURNACE PROGRAM MISMATCH**, then the furnace was not able to copy programs FROM the iBOX.

The mismatch message indicates that the programs stored in the iBOX can not be used for the furnace model that the iBOX is connected to (for example, iBOX is connected to a VIP Universal porcelain furnace while the programs stored in the iBOX are for the VIP Universal X-Press pressable ceramic/porcelain furnace).

4. The furnace LCD will display a **DISCONNECT iBOX** message indicating that the iBOX must now be disconnected from the parallel port. Disconnect the iBOX and then press any key to return the furnace to **IDLE** mode.

VIEW/COPY OPERATION PROCEDURE.

Follow the steps below to view the stored firing programs on the iBOX and then if desired, to copy all programs from the iBOX to the furnace when the **VIEW/COPY iBOX -> FURNACE** operation is selected.

Important: The iBOX must be connected to and disconnected from the furnace when the corresponding prompts are displayed on the furnace LCD to prevent corruption to programs stored in the iBOX.

1. The furnace LCD will display a **CONNECT iBOX** message indicating that the iBOX must now be connected to the furnace parallel port. Connect the iBOX and then press the **ENTER** key to proceed. Alternatively, the **CANCEL** key may be pressed to abort the operation.
2. The furnace LCD will display firing program #0 from the iBOX with a **VIEWING iBOX PROGRAMS** message on the status line. Momentarily press the **0** (▲) or **CLEAR** (▼) keys to scroll up to the next iBOX program or to scroll back to the previous iBOX program, respectively. Press and hold either the **0** (▲) or **CLEAR** (▼) key to automatically scroll up or down through the iBOX programs.

Note: If one of the following messages is displayed **iBOX IS BLANK** or **iBOX PROGRAMS CORRUPTED** or **iBOX/FURNACE PROGRAM MISMATCH**, then the furnace was not able to copy programs FROM the iBOX.

The mismatch message indicates that the programs stored in the iBOX can not be used for the furnace model that the iBOX is connected to (for example, iBOX is connected to a VIP Universal porcelain furnace while the programs stored in the iBOX are for the VIP Universal X-Press pressable ceramic/porcelain furnace).

3. When done viewing the iBOX programs, press the **ENTER** key to proceed or press the **CANCEL** key to abort the operation.
4. The furnace LCD will now display **COPY iBOX -> FURNACE ?**. Press the **ENTER** key to copy all programs from the iBOX to the furnace or press the **CANCEL** key to abort this operation.
5. The furnace LCD will display a **COPYING iBOX -> FURNACE** message while the operation is being performed (about 3 seconds) and then will briefly display **COPY OPERATION COMPLETED** message to indicate that the operation was completed successfully.
6. The furnace LCD will display a **DISCONNECT iBOX** message indicating that the iBOX must now be disconnected from the parallel port. Disconnect the iBOX and then press any key to return the furnace to **IDLE** mode.

TECHNICAL DATA.

Connections:	DB25 male connector. Connects to the furnace printer parallel port that supplies operating power and communication signals to the iBOX.
Dimensions:	2.3" W x 2.8" D x 1.0" H
Weight:	1.5 ounces
Operating Temperature:	50 °F to 104 °F
Relative Humidity:	10% to 90%, non-condensing



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