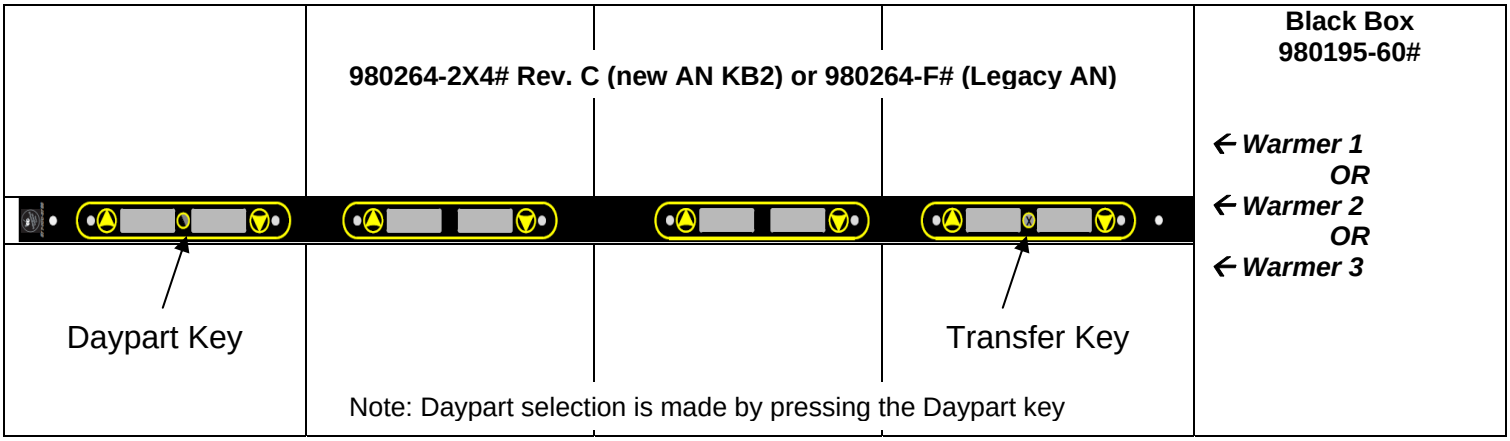
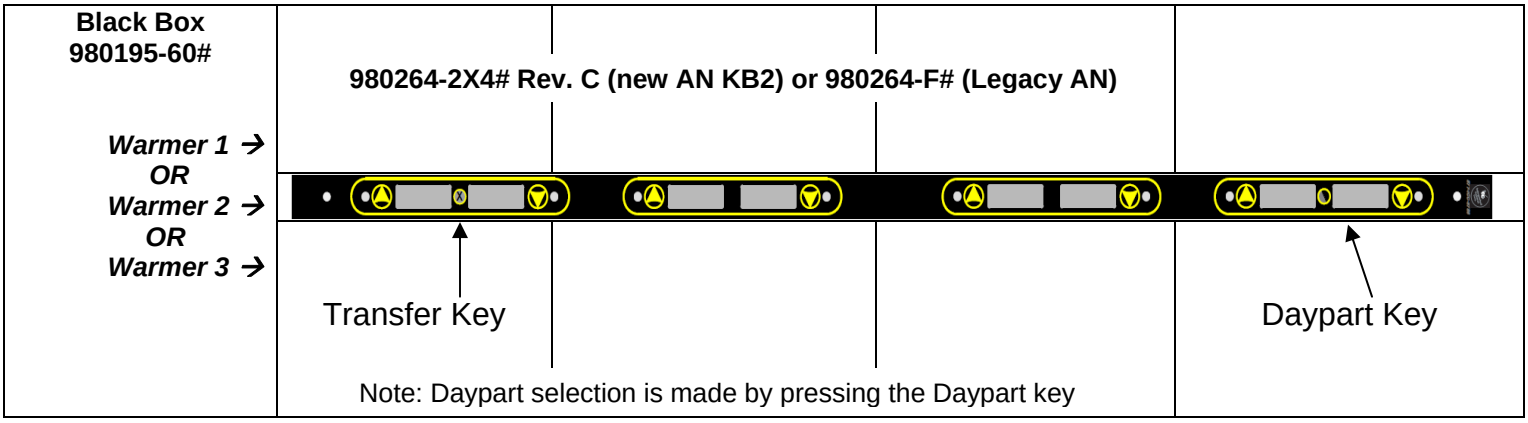
Overview of Alphanumeric 2Hx4W Timer Bars and Control

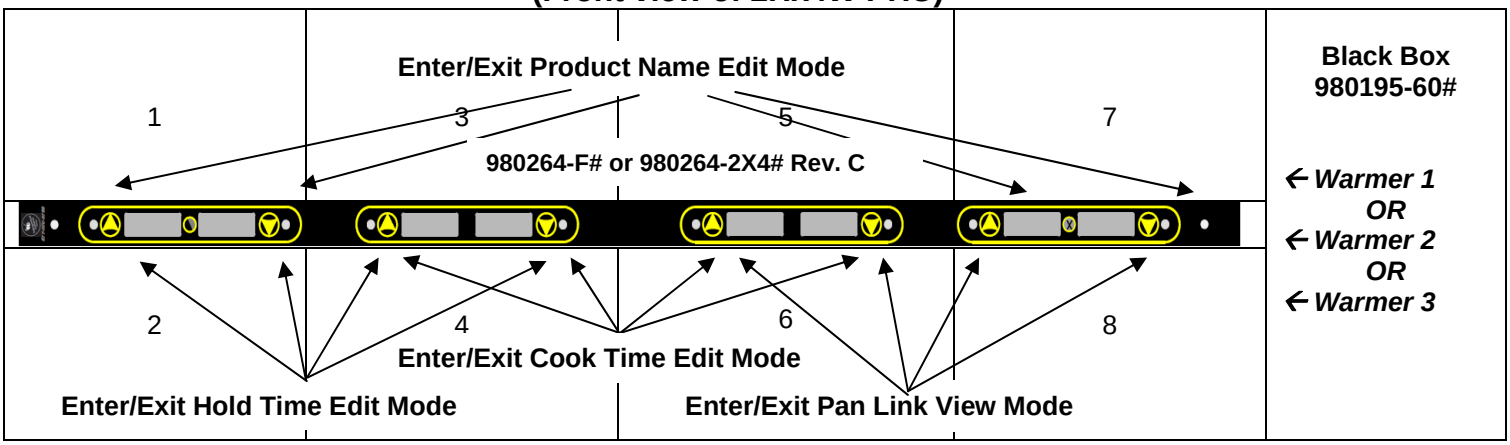
Front view of Main 2Hx4W PHU with Alphanumeric Timer Bars and Control



Back view of Main 2Hx4W PHU with Alphanumeric Timer Bars and Control

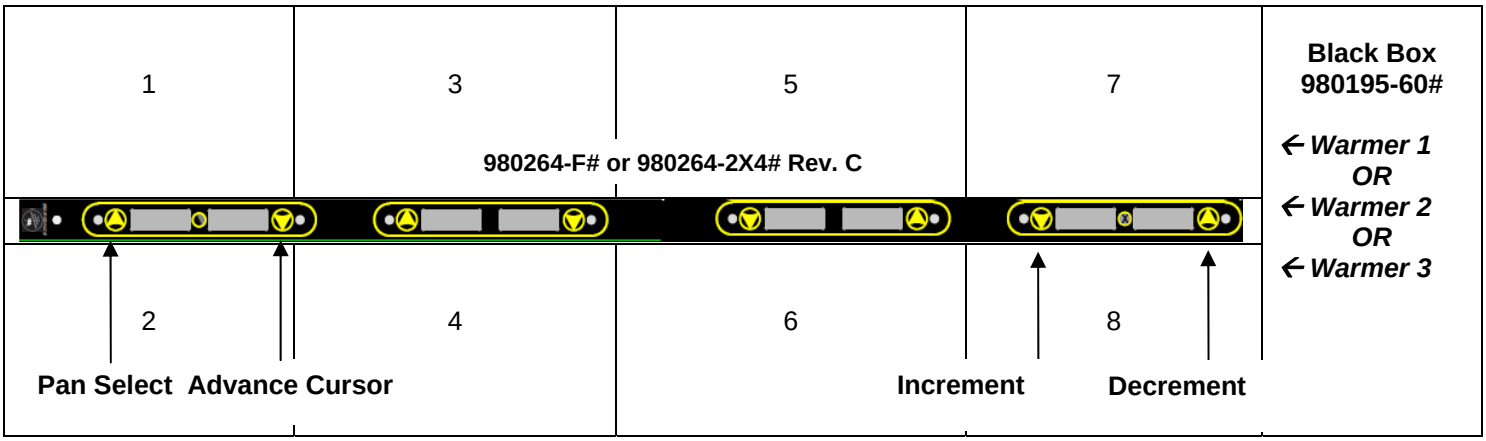


Manual Programming a 2Hx4W PHU with Alphanumeric Timer Bars (1 of 2)
(Front view of 2Hx4W PHU)



Numbers in pan wells indicate the order of pan selection in manual programming modes.

Manual Programming a 2Hx4W PHU with Alphanumeric Timer Bars (2 of 2)
(Front view of 2Hx4W PHU)



Numbers in pan wells indicate the order of pan selection in manual programming modes.

Warning – Do not unplug or plug Timer bars from the powered Black Boxes or Keyboard Power Supply Boxes. This may cause damage to the units!

Hold Time Programming for current Daypart

Programming should be performed on the front side of the warmer.

1. ***Enter Hold Time*** programming by pressing the **4 leftmost UP & DOWN** keys simultaneously.
2. The **left LED** will turn **FLASHING RED**, indicating that the programming function is activated, and the alphanumeric display for each pan will show its current ***Hold Time*** in minutes.
3. In addition to the times shown in the alphanumeric displays, the **GREEN**, **RED** and **YELLOW LED's** represent the ***Hold Time***. Add the values of each color to calculate the ***Hold Time*** of the **RED LED** currently flashing.

   Green = 5 minutes
   Yellow = 20 minutes
   Red = 60 minutes (excluding the **FLASHING RED** light that indicates the current pan)
   Green Flashing = 30 minutes
   Yellow Flashing = 120 minutes

4. **Increase** *Hold Time* by pressing the **rightmost UP** arrow key.
5. **Decrease** *Hold Time* by pressing the **rightmost DOWN** arrow key.
6. *Hold Time* may be set in 5 minute increments from 5 to 120 minutes and 30 minute increments from 120 to 660 minutes (11 hours).
7. Press the **leftmost UP** key to move the **FLASHING RED LED** to the next pan to program.
8. ***Save*** *and* ***Exit*** *Hold Time* programming by pressing the **4 leftmost UP & DOWN** keys simultaneously.

Cook Time Programming for current Daypart

Programming should be performed on the front side of the warmer.

1. ***Enter Cook Time*** programming by pressing the **4 center UP & DOWN** keys simultaneously.
2. The **leftmost LED** will turn **FLASHING RED**, indicating that the programming function is activated, and the alphanumeric display for each pan will show its current ***Cook Time*** in minutes.
3. In addition to the times shown in the alphanumeric displays, the **GREEN**, **RED** and **YELLOW LED's** represent the ***Cook Time***. Add the values of each color in the section to calculate the ***Cook Time*** of the **RED LED** currently flashing.

   Green = 5 minutes
   Yellow = 20 minutes
   Red = 60 minutes (excluding the **FLASHING RED** light that indicates the current pan)
   Green Flashing = 30 minutes
   Yellow Flashing = 120 minutes

4. **Increase** *Cook Time* by pressing the **rightmost UP** arrow key.
5. **Decrease** *Cook Time* by pressing the **rightmost DOWN** arrow key.
6. *Cook Time* may be set in 1 minute increments from 1 to 10 minutes, 5 minute increments from 10 to 120 minutes and 30 minute increments from 120 to 660 minutes (11 hours).
7. Press the **leftmost UP** key to move the **FLASHING RED LED** to the next pan to program.
8. ***Save*** *and* ***Exit*** *Cook Time* programming by pressing **the 4 center UP & DOWN** keys simultaneously.

Note: Do not program the *Cook Time* **with a value greater than the** *Hold Time***.**

Product Name Programming for current Daypart

Programming should be performed on the front side of the warmer.

1. ***Enter Product Name*** programming by pressing the **2 leftmost UP & DOWN** keys and **the 2 rightmost UP & DOWN** keys simultaneously.
2. The **leftmost LED** will turn **RED**, indicating that the programming function is activated, and the **leftmost** display of the keyboard shows the current 4-character product name with its leftmost character blinking. This indicates you are programming PAN 1 and the blinking character indicates the current cursor position within the 4-character NAME.
3. To advance the cursor within the current name, press the 2nd button from the left (the leftmost **DOWN** key) on the keyboard.
4. To change the character at the current cursor position, press the **rightmost** button (Down Arrow) on the keyboard to change to the preceding character value and the **2nd button** from the right (Up Arrow) to change to the next character value from the following list:

```
<space>!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz
```

5. Press the leftmost UP key to move the RED LED to the next pan to program.
6. ***Save*** *and* ***Exit*** *Product Name* programming by pressing the **2 leftmost UP & DOWN** keys and the **2 rightmost UP & DOWN** keys simultaneously. *It is recommended that you press and hold the leftmost pair of pan buttons first to avoid inadvertent character changes when pressing the rightmost pair.*

Note: *You should check your PANS LINKED configuration after editing product NAMES to assure they are linked as desired.*

Pan Link Viewing for current Daypart

Pan linkage for alphanumeric timer bars and controls is determined exclusively from the 4-character product name. Pans are linked if and only if their product names are the same.

Viewing should be performed on the front side of the warmer.

1. Enter *Link Programming* by simultaneously pressing the **4 rightmost UP & DOWN** keys.
2. The **leftmost LED** will turn **RED**, indicating that the programming function is activated.
3. All **LEDs** that are **GREEN** indicate the pans that are linked to the **RED LED**.
4. Press the **leftmost UP** key to move the **RED LED** to the next pan to link.
5. To exit ***Link Programming***, press the **4 rightmost UP & DOWN** keys.

Stand-Alone and Kitchen Minder Modes

The Factory Default is Stand-Alone Mode.
Stand-Alone mode: The Black Box will not seek a signal from a Kitchen Minder

Once a Kitchen Minder is attached, the Black Box is automatically changed to Kitchen Minder Mode. If the Black Box loses communication with the Kitchen Minder (cable unplugged, Kitchen Minder is powered off) after 30 seconds, the Timer Bar displays "NoKM" on all the modules until communication is reestablished and at that time the programmed products are redisplayed. If power to the Black Box is reset and there is no communication to the Kitchen Minder, after 3-5 min "NoKM" will be displayed on all modules.

To temporarily override the "NoKM" error message, simply press the Daypart key once.

To permanently reset the Black Box to Stand-Alone mode, power off the Black Box, then simultaneously press the Daypart Key while powering up the Black Box.

2Hx4W PHU Manual Editing Considerations

Since the 2Hx4W AN Black Box supporting these PHU's usually will be connected to a Kitchen Minder, manual editing should be an infrequent occurrence.

When required, manual editing (a) should be performed for ***one PHU at a time*** and (b) should be performed ***while standing in front of the warmer to be programmed***.

Generally, advancing pans on one PHU will also advance pans on the other PHU(s). The selected pan's LED will be RED.

Incrementing and decrementing pan time values and pan name letters will affect only the selected pan on the PHU whose increment or decrement button is pressed.

When editing product name, the cursor advance button will affect the select pan on each.

Although in practice "use first" LED indications are provided across PHUs, when viewing pan linkage (which is based on product names being identical), linkage is restricted to pans linked on each PHU separately – showing all pans on the PHU linked with that PHU's selected pan.

When editing product names, hold times, cook times or linked products through dayparts, the recommended way to differentiate between Dayparts is to recycle the power to the black box and wait for the system to boot up (since the black box defaults to Daypart 1). At this point the black box will be defaulted to Daypart 1. Press the Daypart button once to change to Daypart 2. Press the Daypart button once more to change to Daypart 3.

PHU Configuration Support

The 2Hx4W AN KB2 Black Box SW is primarily intended to support the following configurations:

PHUs 1,2 and 3 (with timer bars connected in Warmer Port 1, 2 and 3)

1) PHUs 1,2 and 3 can be legacy 2x4 AN, RLGL, 2X4 AN Rev.C, legacy 4X2 AN or 4X2 AN Rev.C
2) PHUs 1,2 and 3 can have a mix of any of the timer bars specified in the above line as the front and back timer bars

Warnings:

1) ***Do NOT plug in or move AN KB2 timer bars to different ports on a powered up KB PS box (980680#)*** as this will damage the KB PS box resulting in input power being provided unregulated to any attached timer bars. If the KB PS box continues to be used once damaged it will damage any attached legacy AN KBs and will likely damage any attached AN KB2 timer bars.
2) Plugging in or moving AN KB2 timer bars on a 980195-60# will not damage the Black Box but will cause it to reset.

Factory Default Product Names

Main (PHU1) 2H x 4W PHU on Warmer Port 1 – Front View

W1P1	W1P3	W1P5	W1P7	**Black Box 980195-60#**
				***← Warmer 1***
W1P2	W1P4	**980264-2X4# Rev C** W1P6	W1P8	

Slave (PHU2) 2H x 4W PHU on Warmer Port 2 – Front View

W2P1	W2P3	W2P5	W2P7	**Black Box 980195-60#**
				***← Warmer 2***
W2P2	W2P4	**980264-2X4# Rev C** W2P6	W2P8	

Slave (PHU3) 2H x 4W PHU on Warmer Port 3 – Front View

W3P1	W3P3	W3P5	W3P7	**Black Box 980195-60#**
				***← Warmer 3***
W3P2	W3P4	**980264-2X4# Rev C** W3P6	W3P8	