

Supplement for Legacy Software



This supplement is designed to be used in conjunction with your current model's Operator's Manual.

This will give a brief explanation of the alternate controller software that may come with your stove.

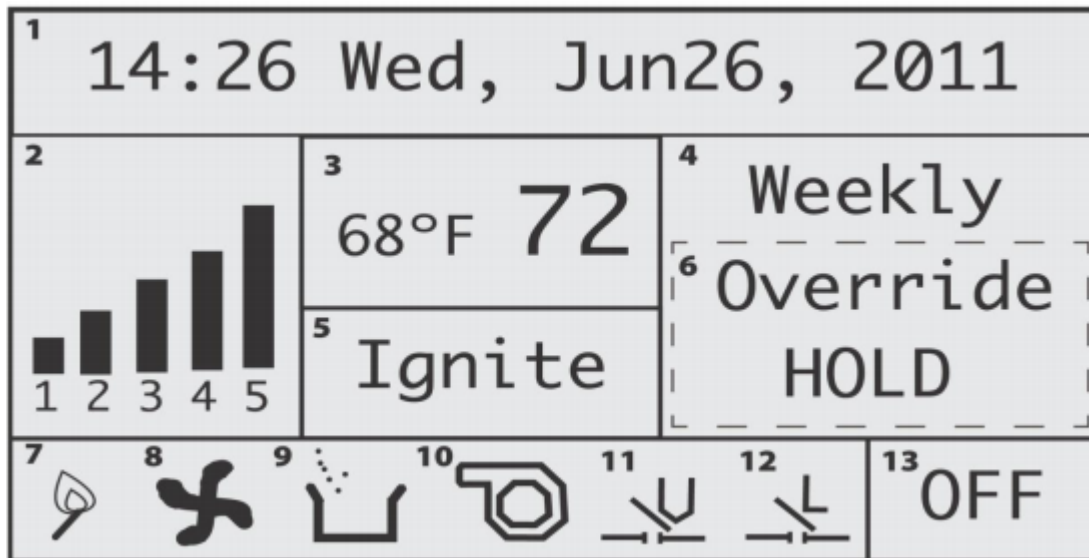
BECOMING FAMILIAR WITH YOUR CONTROLLER



CONTROLLER BUTTONS

- 1. Infrared Receiver:** Receives signal from remote control. (Available separately)
- 2. Power Indicator:** Illuminates when main power is switched on.
- 3. Alarm Light:** Illuminates if stove is not operating correctly.
- 4. On/Off Button:** Starts and stops operation of stove.
- 5. Timer Button:** Allows you to choose the start or shutdown time of the stove.
- 6. Mode Transfer Button:** Allows you to set the unit to one of three main mode settings: Manual, Temp, and Weekly.
- 7. Hold Button:** Pressing the "Hold" button in weekly mode after raising the "call to temperature" will maintain that temperature until the button is pressed again or stove is shut down.
- 8. Scroll up Button:** Allows you to scroll up to choose items in the menu.
- 9. Exit Button:** Take you out of current selection and returns to previous option and/or screen. When entering data, pressing the EXIT button will delete your entries.
- 10. Scroll Down Button:** Allows you to scroll down to choose items in the menu.
- 11. Enter Button:** Pressing "Enter" button allows you to adjust and select data on the screen. Pressing the "Enter" button for 3 seconds will take you to a main menu screen in which you will have the ability to change the time, date, temperature display, weekly operation schedule (for Weekly Mode only) and combustion motor and voltage settings.

MAIN OPERATION CONTROLLER SCREEN DISPLAY



- 1. Date and Time:** Displays time and date.
- 2. Heating Power Level:** Indicates the level of power at which the stove is currently heating.
- 3. Current Room Temperature/Call To Temperature:** Displays current room temperature and, in the Temp mode, the call to temperature.
- 4. Main Mode:** Displays Operation mode - Weekly, Temp, and Manual.
- 5. Work Stage:** Displays operational stage in which the stove is currently operating (i.e. Ignite, Heating)
- 6. Additional Control Mode:** Displays additional mode info such as holds and overrides.
- 7. Igniter Indicator:** Indicates when the igniter is being fired.
- 8. Combustion Blower Indicator:** Indicates when the exhaust/combustion fan is running.
- 9. Auger Indicator:** Indicates when the auger is feeding pellets.
- 10. Convection Blower Indicator:** Indicates convection/room blower fan is running.
- 11. Vacuum Switch Indicator:** Indicates there is vacuum pressure in the stove.
- 12. Hopper Lid Open Indicator:** Indicates the hopper lid is closed. When lid is open, "L" will disappear.
- 13. On/Off Mode Indicator:** Indicates when the stove is either on or off.

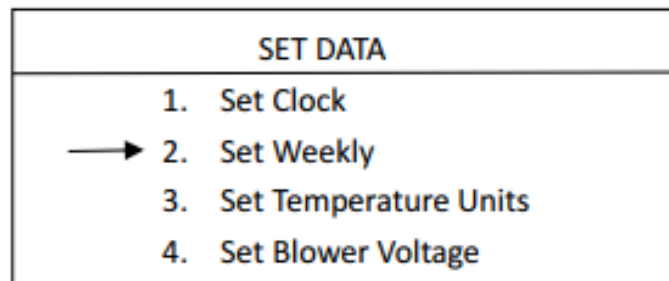
SETTING DATA ON YOUR CONTROLLER

SETTING THE TIME AND DATE

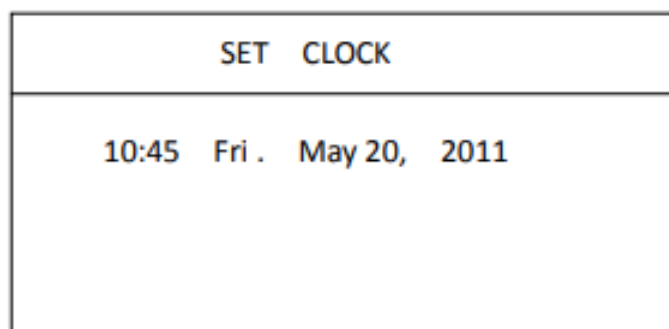
1. Press and hold the "Enter" button. This will take you to the "Set Data" screen.
2. Press "Enter" again to enter the "Set Clock" screen.
3. *To change the hour, press "Enter". This will highlight the hour block. Using "Scroll Up" and "Scroll Down" select the correct time. Press "Enter" to select the correct hour, and then press "Enter" a second time to begin setting the minutes.*
4. *Continue this process for selecting and setting the Day, Month, Date, and Year.*

SETTING WEEKLY SCHEDULE

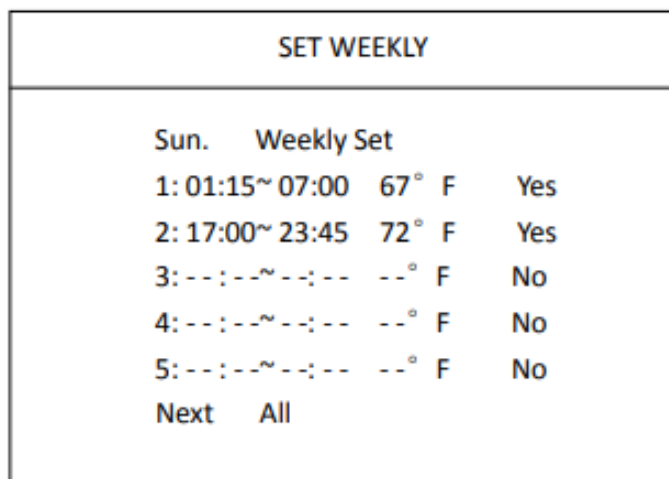
1. Press and hold the "Enter" button until the "set data" menu appears on the screen. Using the "Scroll Down" button, select "Set Weekly" and press "Enter" This will take you into the weekly schedule screen.
2. In the "Weekly Schedule" screen, you can begin with setting the operation times for Sunday. Press "Enter" to highlight the hour and use the "Scroll Up and "Scroll Down" buttons until you reach your desired hour of start time. Press "Enter" again to highlight the minutes and use the "Scroll Up" and "Scroll Down" until you reach the desired minute of start.
3. Pressing "Enter" again will allow you to set the stop time of your stove. Use the same procedure for setting your stove's start time for selecting a stop time. Once you've selected the stop time, press "Enter"
4. Next you will have the opportunity to set the desired temperature. Use the "Scroll Up" or "Scroll Down" keys until you've reached the appropriate temperature for the times you have selected. Press "Enter".



Set Data Menu



Set Clock Menu



Set Weekly Menu

NOTE: Your stove controller uses 24 hour military time to set your weekly schedule.

5. "Yes" will be highlighted. Pressing "Enter" will confirm your selection and will take you out of your first set time.

If you wish to erase a scheduled time, use the "Enter" key to highlight "Yes" on the screen for that scheduled time. Select "No" using the "Scroll Up" or "Scroll Down" keys. While "No" is highlighted, press "Enter" to erase the data.

6. To set another time for that particular day, press "Scroll Down" and continue by repeating steps 2-5 as desired.

NOTE: You must set your times in chronological order. The first schedule slot of one day MUST be earlier in the day than the second schedule slot on your weekly schedule list, and so on.

7. Once you have set all times for the first day (Sunday), "Scroll Down" to "Next" and press "Enter" once. This will highlight "Next". Pressing "Enter" again will progress to the following day. Proceed with setting a schedule for the rest of the week using the preceding instructions.

NOTE: Along with the "Next" option on the screen, there is also an "All" option. After you have set a particular time for a day, if you wish to set that time for every day of the week, "Scroll Down" to "Next" and press "Enter". Press "Scroll Down" key to select and highlight "All". Press "Enter" to select that scheduled time and apply it to each day of the week.

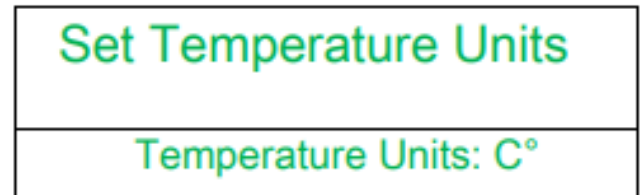
8. Once you've finished setting your schedule, without any of the options highlighted, press the "Exit" button. This will save your schedule.

9. With a schedule set, make sure that the main display screen on the controller reads "Weekly" (for operating in the Weekly Mode) and that the unit is turned on. The schedule will not take effect unless the unit is turned ON and in the Weekly Mode. ***(See Indicators #4 and #13 on the controller screen display)***

TIP: If at any point, you need to leave the weekly schedule screen or once you have finished setting all of your times, select the "Exit" button to return to the previous menu.

SETTING TEMPERATURE UNITS

1. Press and hold the "Enter" button. This will take you to the "Set Data" screen.
2. Using the "Scroll Down" key, move down to Option 3 "Set Temperature Units" and press "Enter". This will take you into the "Set Temperature Units" screen.
3. In the "Set Temperature Units" menu, press the "Enter" key to highlight the units. Use "Scroll Up" or "Scroll Down" to select either Celsius (C°) or Fahrenheit (F°).
4. When finished, press "Enter". With nothing highlighted on the screen, press the "Exit" button.



Set Temperature Units Menu

SETTING BLOWER VOLTAGE

The blower voltage (controlling the room blower or convection fan) can be turned up or down for each power level to regulate the amount of heat circulated into the room during operation. Some fuels radiate heat better than others. You have the ability to speed up or slow down the room fan to extract the optimum amount of heat without blowing cold air. Increasing the blower voltage causes the convection motor to run faster, extracting more heat from the unit.

Decreasing the blower voltage allows you to slow the exchange of heat from the stove so it blows warmer air.

NOTE: If the stove is giving the over-temp alarm in any setting, increasing the blower voltage may help.

To Set Blower Voltage:

1. Press and hold the "Enter" button. This will take you to the "Set Data" screen.
2. Using the "Scroll Down" key, move down to option 4, "Set Blower Voltage". Press "Enter" again to move into the "Set Blower Voltage" screen.
3. Select the stall (or heating power level) for the voltage you'd like to change by scrolling up or down and pressing "Enter" The voltage amount will automatically be highlighted.
4. Using the "Scroll Up" or "Scroll Down" keys, select the appropriate voltage.
5. Press "Enter" to finalize your changes. Repeat steps 2-4 for the other stalls that you wish to change.

Set Blower Voltage
1. Stall1 Voltage:~ 90V
2. Stall2 Voltage:~ 105V
3. Stall3 Voltage:~ 115V
4. Stall4 Voltage:~ 115V
5. Stall5 Voltage:~ 115V

SETTING EXHAUST VOLTAGE

The exhaust voltage (controlling the combustion motor) allows you to adjust the stove for the fuel you are burning or compensate for inadequate ventilation situations. In less than optimal venting situations, you can increase the exhaust speed for additional air circulation through the stove.

NOTE: Be sure to visually watch the burn rate if the exhaust voltage is decreased, as to not cause pot overloading. Exhaust voltage should ONLY be adjusted to get the optimum performance out of the fuel you are using.

IMPORTANT: Changing the exhaust voltage does NOT change the feed rate. Therefore, on high heat power levels, where the feed rate is faster, a low voltage level will not push out enough air and the stove may overheat and/or pellets may back up into the burn pot. Decreasing exhaust voltages will increase the amount of heat coming into the room. Do not adjust the exhaust voltage too low, as it can cause pellets to back up in the burn pot and lower heat output..

Increasing the exhaust voltage, and thereby increasing the amount of airflow through the burn pot, will also assist in burning lower quality fuels that may otherwise cause unwanted buildup.

To Set Exhaust Voltage:

1. Press and hold the "Enter" button. This will take you to the "Set Data" screen.
2. Using the "Scroll Down" key, move down to option 5, "Set Exhaust Voltage". Press "Enter" again to move into the "Set Exhaust Voltage" screen.
3. Select the stall (or heating power level) for the voltage you'd like to change by scrolling up or down and pressing "Enter" The voltage amount will automatically be highlighted.
4. Using the "Scroll Up" or "Scroll Down" keys, select the appropriate voltage.
5. Press "Enter" to finalize your changes. Repeat steps 2-4 for the other stalls that you wish to change.

Set Exhaust Voltage
1. Stall1 Voltage:~ 98V
2. Stall2 Voltage:~ 100V
3. Stall3 Voltage:~ 103V
4. Stall4 Voltage:~ 106V
5. Stall5 Voltage:~ 108V

*Exhaust voltages will vary by model.
(Voltages above for example only)*

DIAGNOSTICS

Your stove's controller comes equipped with an on-board diagnostics option that will let you test some components of the stove.

NOTE: You will only be able to enter the diagnostic screen when the stove is turned OFF.

To get into the diagnostic screen:

1. Press and hold the "Enter" button. This will take you to the "Set Data" screen.
2. Using the "Scroll Down" key, move to option 6 "Diagnostics". Press "Enter" to access the "Diagnostics Screen"

NOTE: The shaded circles indicate when a component is in the "Engaged" or ON position.

When stove is OFF and cool, the only circle that will appear shaded is the "Limit" (Hopper Lid Indicator)

In the diagnostics mode, you will have the ability to test certain components of the stove to ensure they are working as intended.

In order to test a specific component:

1. Move the cursor arrow to the desired component keyword using the "Scroll Up" or "Scroll Down" keys, and press "Enter"
2. The selected component keyword will highlight. Press the "Scroll Up" or "Scroll Down" key once to shade the selected circle.

This will turn on, or "Engage" this component.

The only components that you are able to manually Engage are "Fire", "Blower", "Exhaust", and "Feeding"

<u>Diagnostic</u>		Stalls:	01
Fire:	<input type="radio"/>	Blower:	<input type="radio"/>
Exhaust:	<input type="radio"/>	Feeding:	<input type="radio"/>
Limit:	<input checked="" type="radio"/>	Vacuum:	<input type="radio"/>
NTC1:	<input type="radio"/>	NTC2:	80 C

Diagnosics Menu

Component Keywords:

1. **Stalls:** Changing the stall # will allow you to test the components in the various heating power levels.
2. **Fire:** Tests whether the igniter is working properly.
3. **Exhaust:** Tests whether the combustion motor and exhaust system is working properly.
4. **Limit:** Will indicate whether the hopper lid is properly shut.
5. **Blower:** Tests whether the room blower fan is working properly.
6. **Feeding:** Tests whether the auger is properly feeding pellets.
7. **Vacuum:** Will indicate whether there is sufficient negative pressure in the stove. (Should shade when "Exhaust" is engaged).
8. **NTC1:** Proof of Fire indicator. (Will only be shaded when stove is still hot enough to engage the P.O.F. switch.
9. **NTC2:** Will indicate temperature being read by the overheat sensor. (Temperature is in Celsius)

RESTORING DEFAULT SETTINGS

Option 9 "Restore Default Settings" should never need to be used, as the correct baseline settings are programmed into the controller during the inspection process.

NOTE: Restoring default settings will also erase the changes that were made during the inspection process and could affect the performance of your stove.

SHUT DOWN PROCEDURE

Press the "On/Off" button on the control pad to initiate the shut down mode. The On/Off indicator on the screen will now read "Off".

The auger will stop feeding pellets, but the exhaust fan and room blower fans will continue to operate for a time. Once the stove has cooled, the screen light will turn off.

NOTE: Stove shut down times can vary.