

SUPPLEMENTAL INSTRUCTIONS

8403-066 ECU Series Controller: Lead/Lag Unit Operation

Lead/Lag Overview

The Bard 8403-066 ECU Series Controller has an additional lead/lag feature that allows up to four units* to operate in a unit rotational mode. Once programmed, the ECU Series controller operation will rotate cooling and heating setpoints for up to four units every 24 hours. It is important to verify all ECU Series controllers used are set to the correct time and date. Please refer to the user manual to verify the time and date setting for each ECU Series controller.

Navigate the menus and change settings by pressing a combination of the four arrow buttons and the ENTER button.

- **ENTER** button to select and/or exit value editing
- **UP** or **DOWN** button to move among entries
- **RIGHT** or **LEFT** button to move among value fields
- **LEFT** button to return to the home screen

* Software version R1.3.5.1 or newer. Earlier versions allowed two units to rotate.

Accessing the Lead/Lag Setup Menu

To access the lead/lag setup menu:

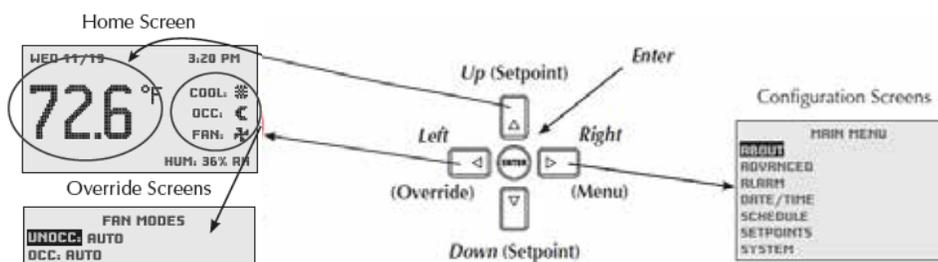
1. Press RIGHT button to access Main Menu screen.
2. Press DOWN button to scroll to ADVANCED. Press ENTER button.
3. In the ADVANCED menu screen, press DOWN button to scroll to LEAD/LAG. Press ENTER button.
4. Controller will ask for Admin Level Password. Use UP, DOWN and RIGHT buttons to enter BARD or 1914. Press ENTER button.

Lead/Lag Menu Options

Once the LEAD/LAG menu is accessed, the following settings are available:

- The ability to enable the lead/lag feature.
- Identify the unit # the ECU Series controller will be connected to.

FIGURE 1
ECU Series Controller Buttons and Home, Override and Configuration Screens



Bard Manufacturing Company, Inc.
Bryan, Ohio 43506
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Manual: 7960-780
Supersedes: **NEW**
Date: 9-2-16

- Input the total number of units that will use this feature.
- Set the Lead Unit cooling setpoint.
- Set the Lead Unit heating setpoint.
- Set the Lag 1 Unit cooling setpoint.
- Set the Lag1 Unit heating setpoint.
- Set the Lag2 Unit cooling setpoint.
- Set the Lag2 Unit heating setpoint.
- Set the Lag3 Unit cooling setpoint.
- Set the Lag3 Unit heating setpoint.

Enable Lead/Lag

Use this option to turn on the lead/lag feature. Press ENTER button to enable LEAD/LAG. Press UP or DOWN button to change NO to YES. Press ENTER button. Default setting is "NO".

Unit #

Use this option to identify the unit that the ECU Series controller will be connected to. For easy identification in the future, it is suggested that each wall mount be identified with a unit number. This unit number will correspond with the controller unit number programmed into this setting. Default setting is "1".

Example: Four units are being set up with lead/lag operation. Each of the four units are identified 1 thru 4, and each controller is set up with the corresponding unit number 1 thru 4.

Press DOWN button to scroll to Unit #. Press ENTER button. Press UP or DOWN button to select unit #. Press ENTER button to save unit #.

of Units

Use this option to identify how many total units will be used in lead/lag operation. Default setting is "4".

Press DOWN button to scroll to # of Units. Press ENTER button. Press UP or DOWN button to select # of units. Press ENTER button to save # of units. This number must be the same on all the units that are used in lead/lag operation.

Unit Temperature Setpoints for Cooling and Heating

Cooling and heating setpoints are adjustable for the lead unit and up to three lag units. During normal lead/lag operation, every 24 hours lead operation will rotate to the next unit in the unit # order. Lag unit(s) will also follow the same unit # rotation. It is important that each ECU Series controller has the same value for all heating and cooling setpoints to ensure that as each unit is selected as Lead, Lag1, Lag2 or Lag3, it operates at the same temperature settings. Default setpoints are as follows:

- Lead Unit cooling setpoint is 72°
- Lead Unit heating setpoint is 70°
- Lag1 Unit cooling setpoint is 74°
- Lag1 Unit heating setpoint is 68°
- Lag2 Unit cooling setpoint is 76°
- Lag2 Unit heating setpoint is 66°
- Lag3 Unit cooling setpoint is 78°
- Lag3 Unit heating setpoint is 64°

Press DOWN button to scroll to LEAD COOL SETPT. Press ENTER button. Press UP or DOWN button to adjust. Press ENTER button to save.

Repeat above steps for each of the units' lead and lag setpoints as needed.

The Home screen will show the unit lead/lag status continually. This is located on the top line of the display between the date and time. The screen will display one of the following status indicators: LEAD, LAG 1, LAG 2, LAG 3. The lead/lag status determines the setpoint that will be used that day. Status will rotate based on day of the year.