Update Process For The *BaseStation*™
3200 and 3000+ Controllers

Updating code versions
8.8.9.12 and 9.8.28.13

**to 11.7.5.15**
Do not power down the 3200/3000+ controller. If the controller is powered down, power it up.

**NOTE:** Follow the steps outlined in this guide closely. In order to protect the data and programming on the controller do each step thoroughly and in order.

1. Turn the dial to “Date/Time”
2. Press the “+”, “−”, “NEXT”, and “PREV” keys to set the correct date and time.
3. Turn the dial to “AUTO/RUN” and verify that the date and time are correct.
4. Use the **Update Log Form** to keep track of important information for each controller that you update.

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*Upgrade Instructions*
1. Write Down the Project name and the location of the controller
   Example (Baseline HQ, Meridian, Idaho)
2. Turn Dial to the “AUTO RUN” position.
3. Note the model number located at the top left corner of the controller screen, as shown in the diagram to the left.
   Example (3200 or 3000+)

   If the controller model is 3000 (not 3000+),
   NO UPDATE IS NEEDED.
   Proceed to your next controller.
Step 2—Controller Serial Number and Version

1. Turn Dial to the “AUX” position.
2. Write Down Serial Number of controller. The Serial number is located at the top of the “AUX” menu:
   Example: 3K03651.
   The Software Update will clear the Controller Serial Number and you will need to re-enter it later. (See Page 25)
   Note: The Serial number on the door may not always match the serial number on the “AUX” menu.
   Make sure you use the serial number on the “AUX” menu! Remove the door label if it is wrong.
3. Write Down the Software Version Number of controller on the Update Log Form. The Version Number is located at the top of the “AUX” menu:
   Example (9.8.28.13)
4. Insert the USB Flash drive into the USB connector on the controller—see examples on the page to the left.
5. Keep the USB flash drive inserted into the controller until completed with the entire process!
Step 3—Programs Schedule

Note: the next two steps are only needed on controllers with very old versions of software.

1. If your software version begins with an ‘8’ or a ‘9’, you must complete these steps. If the version begins with a ‘10’, skip to page 13.

2. Turn the dial to “Start Times”.

3. Record the start time for each program (use the “ENTR” key to advance to the next program).
   
   Example: Program A = 1 AM, Program B = 7 AM

4. Record the “Do Not Allow Watering” windows for each program (use the “ENTR” key to advance to the next program).
   
   Example: Program B = 7 AM to 11 AM

5. Turn the dial to “Day Intervals”.

6. Record the schedule for each program (use the “ENTR” key to advance to the next program).
   
   Example: Program A = Seven day: (Mon, Tues, Sat = Yes)

7. Record the total concurrent zones and the concurrent zones for each program (use the “ENTR” key to advance to the next program).
   
   Example: Total = 2, Program A = 1, Program B = 1

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Step 4—Master Valves & Flow Limits

1. Turn the dial to “MV/Pump Start”.
2. If there are no MVs in use, skip to line 4 on this page.
3. For MV1, MV2, MV3, and MV4 write down the programs that have a “Y” by them—these are the programs that use the corresponding master valve.
   Example: MV1—C, D
4. Turn the dial to “Flow Menu”.
5. If there are no flow meters in use, skip to step 5 (next page).
6. Press “NEXT” until “Flow+MV+Programs” is selected.
7. Press “ENTR” to open this menu.
8. For each flow meter, write down the settings.
   Example: 00W01107—MV=none, Budget=Off, High Flow = 50 gpm
9. Press “CLR” to return to the previous screen.
11. Press “ENTR” to open this menu.
12. Write down the controller based settings.
   Example: High Flow = 50, Avail Flow = 40, Budget=Off

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1. Turn the dial turned to “AUX”.
2. Press “NEXT” until "USB Data" is selected.
3. Press “ENTR” to open this menu.
   
   Note: if you are unable to do this, remove the USB flash drive, wait 30 seconds, and re-insert the USB flash drive. If you are still unable to complete this step, call Baseline support (see number at bottom of this page).

4. In the new menu, press “NEXT” until "Backup" is selected.
5. It should indicate “No Previous Backup”. If not, call Baseline support immediately! Do NOT continue or programming loss will occur.
6. Press “ENTR” to backup your current configuration.
7. The upper left square will turn yellow while data is written to the USB flash drive.
8. When complete, today’s date will be shown to the right of the “Backup” menu.
   This indicates that programming was successfully written to the USB flash drive. If not, call Baseline support immediately! Do NOT continue or programming loss will occur.
9. When done, press “CLR” to return to previous screen.

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Step 6—Export Run-time Data

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until "USB Data" is selected.
3. Press “ENTR” to open this menu.
4. In the new menu, press “NEXT” until "Export" is selected.
5. Press “ENTR” to export your historical run-time data.
6. The top left box will turn yellow for a few minutes depending on how much data is stored on controller. When the box turn back green the export has been completed.
7. When done press “CLR” to return to previous screen

Note: The data being exported (or copied) to the USB flash drive is the historical run-time and log data gathered and stored inside the controller.
Step 7—Clear Controller Programming

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until "Clear All" is selected.
3. Press “ENTR”.
5. Press “ENTR” again to clear the current programming.
6. The top left box will turn yellow for 1-2 seconds, and will return to green when complete.
7. When done, press “CLR” to return to previous screen

Note: All programming will be restored in last steps of this guide from the USB Flash Drive.
Step 8—Erase Historical Log Files

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until “System” is selected.
3. press “ENTR” to open this menu.
4. In the new menu, press “NEXT” until the red box is selected.
5. Press the “-” key four (4) times until the word “Erase” appears.
   Note: if you miss the “Erase” word, press “CLR” and repeat this step from line 2.
6. Press “ENTR” to erase current historical data and log files. This may take a few minutes.
7. The top left square will turn yellow while the controller is busy, and will return to green when complete.
8. When done, press “CLR” to return to previous screen.

Note: up to a year’s worth of historical data and logs will be restored in last steps of this guide from the USB flash drive.
Step 9—Update Controller Software

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until “System” is selected.
3. Press “ENTR” to open this menu.
4. In the new menu, press “NEXT” until the red box is selected.
5. Press the “-” key two (2) times until the word “Update” appears. There should be two columns of dates displayed. The last two dates should not match. If the last two dates are the same, call Baseline support before proceeding.
6. Press “ENTR” to start the update process.
7. The upper left square will turn yellow for 5-10 seconds. Once completed, the square will turn back to green.
8. Newer controllers will automatically re-boot at this point indicating that the update process completed successfully.
9. Older controllers will remain on this screen, but will update the two columns of dates and each row of dates should match (there will be an “=” symbol between them). If they do not, call Baseline support.

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1. If the controller did an automatic re-boot, skip to step 6.
2. Turn the dial to “OFF”. *(Make Sure the RED “OFF” Screen appears)*
3. Remove USB Thumb Drive
4. Press and hold down the “+”, “-”, and “Enter” keys, all at the same time, until the controller screen goes blank (this will reboot the controller—this takes about a minute).
5. Once the controller has completely finished restarting, plug in the USB Flash Drive.
6. Turn the dial to “AUX”.
7. Confirm that version number **11.7.5.15** is displayed at the top of this screen—this verifies that the update was successful.
Step 11—Set Controller Serial Number

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until “System” is selected.
3. Press “ENTR” to open this menu.
4. In the new menu, set the serial number by using the “NEXT” and “PREV” keys to select a digit and then by using the “+” and “-” keys to set the value. The serial number must be set to the original value as recorded.
5. When done, press “CLR” to return to previous screen.
Changing BiLine Mode: This step is for 3000+ Controllers only

1. If the Controller Model Number is “3200” skip to step 13 (do not continue on this page).
2. Keep the dial turned to “AUX”.
3. Press “NEXT” until "System" is selected.
4. Press ENTR” to open this menu.
5. In the new menu, press “NEXT” until the red box is selected.
6. Press the “-” key five (5) times until the word “Extended” appears.
7. Press “ENTR” and the word “Extended” will change to “Advanced”.
8. Press “CLR” to return to previous screen.
Step 13—Restore Programming

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until "USB Data" is selected.
3. Press “ENTR” to open this menu.
4. In the new menu, press “NEXT” until "Restore" is selected.
   Note: It should have today’s date next to the “Restore” word.
5. Press “ENTR” to restore the programming.
6. The top left box will turn yellow for a few seconds during this operation. When the box turns back green the restore has been completed.
7. When done, press “CLR” to return to previous screen.

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Step 14—Import Historical Data + Final Backup

1. Keep the dial turned to “AUX”.
2. Press “NEXT” until "USB Data" is selected.
3. Press ENTR” to open this menu.
4. In the new menu, press “NEXT” until "Import" is selected.
5. Press “ENTR” to import the historical data and logs back into the controller.
6. The top left box will turn yellow for a few minutes depending on how much data is being imported. When the box turns back green the import has been completed.
7. Press “CLR” to return to the previous menu.
8. Press “NEXT” until "USB Data" is selected.
9. Press “ENTR” to open this menu.
10. In the new menu, press “NEXT” until "Backup" is selected.

   Note: it may indicate “No Previous Backup”, or it may have today’s date. Either is OK.

11. Press “ENTR” to backup your current configuration.
12. It will now indicate today’s date.
13. Remove the USB Flash Drive.

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Step 15—Old Version Program Update

1. If your old software version started with a ‘10’, you do not need to do this step. Proceed to Step 16.
2. Turn the dial to “Start Times”.
3. For each program, enter the start time as previously recorded.

For each program, enter the “Do Not Allow Watering” window settings as previously recorded.

4. Turn the dial to “Day Intervals”.
5. For each program, enter the day schedule as previously recorded.

7. Turn the dial to “MV/Pump Start”.
8. For each master valve, set the program assigned as previously recorded.
9. Turn the dial to “Flow Menu”.
10. Open the “Zone Concurrency” menu (select it then press “ENTR”).
11. Set the concurrency settings as previously recorded.
12. Press “CLR”, then select the “Flow Device Limits” menu and press “ENTR”.
13. Enter the values as previously recorded.

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Step 15—Old Version Program Update

14. Press “CLR”, then select the “Mainline Setup” menu and press “ENTR”.

15. Enter the values as previously recorded.

16. Complete!

Step 16—Extra Credit

Note: This step is optional, but should be part of normal spring startup.

1. Turn the dial to “biCoder Menu”.
2. With “Search” selected, press “ENTR”.
3. Turn the dial to “Self-Test”.
4. Select the “Test All” menu and press “ENTR”.
5. Turn the dial to “AUTO/RUN”.
6. Press “PREV” one time to review the messages and error alerts.
7. Scroll through the messages using the “+” and “-” keys. Use “CLR” to clear a message once the error or condition has been either fixed or ignored.
8. Fix all problems.
9. Turn the dial to “biSensor Menu”.
10. Select the “Configure biSensor” menu and press “ENTR”.
11. Review the water strategy for each biSensor.

   Note: If you were running on very old software, you will need to adjust the watering limits as the formula to calculate the moisture percentage has been modified to bring it into better compliance with industry practices and certification. This is best done by running a biSensor calibration cycle as part of normal spring system checkout and turn-on. See the 3200 operating manual for additional information on running biSensor calibration cycles.

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