SUPPLEMENTAL INSTRUCTIONS

MC5300/MC5600 Series Controller Firmware Update and MicroSD Card Replacement

These instructions detail the firmware update and MicroSD replacement processes for the MC5300 and MC5600 Series controllers. See page 5 for instructions on replacing/reformatting a new MicroSD card.

Firmware Update

Tools and Supplies Needed

- MC5300 or MC5600 controller
- Computer/laptop
- MicroSD card adapter (if needed)
- Update file (can be found @ http://www.bardhvac.com/software-download/)

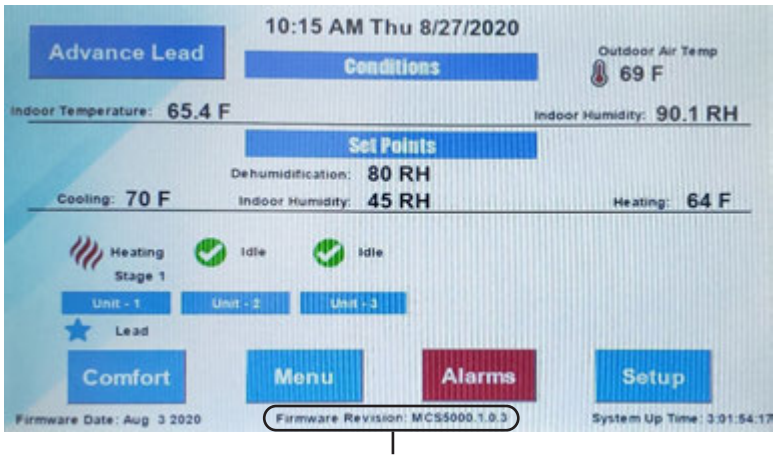
  This file will need to be unzipped after download. File to be transferred will be named "firmware.oem".

Instructions

1. Note the current Firmware Revision on the controller (see Figure 1). This revision identifier will change if firmware is installed properly.
2. Disconnect the power to the display. This can be accomplished by doing one of the following:

   A. Disabling power to all connected units

FIGURE 1
Firmware Revision Location on Home Screen



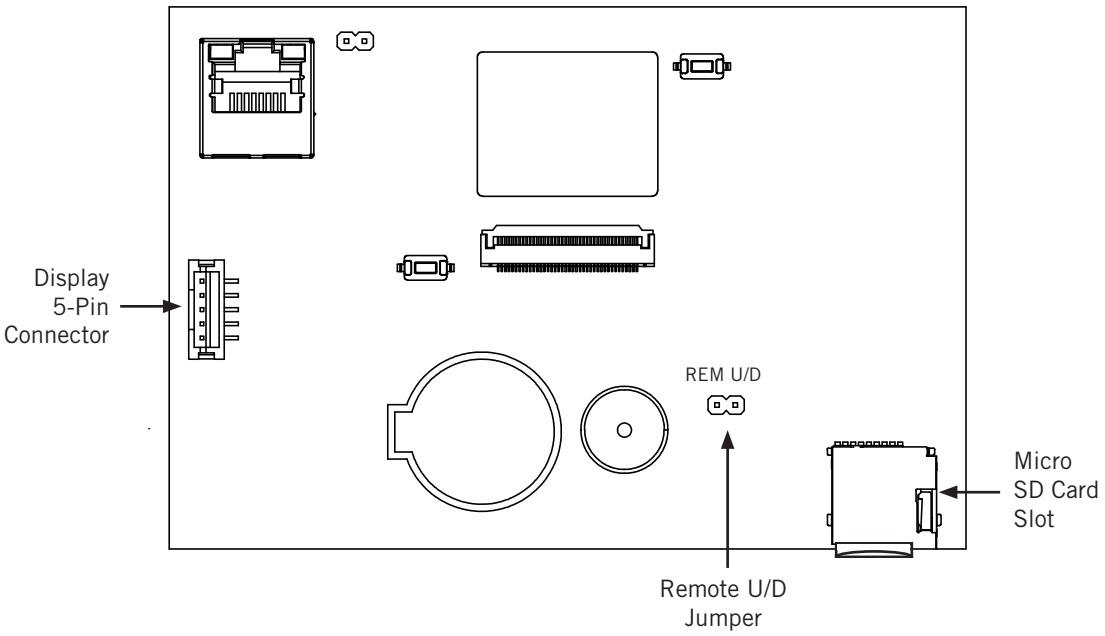
Firmware Revision

Bard Manufacturing Company, Inc.
Bryan, Ohio 43506

www.bardhvac.com

Manual: 7960-895B
Supersedes: 7960-895A
Date: 4-9-24

FIGURE 2
Back of Controller Touch Screen Display



B. Unplugging the 5-pin connector plugged into the back of the display (see Figure 2 on page 2).

3. Remove the MicroSD card.
   A. The MicroSD card slot is located on the back of the display (see Figure 2).
   B. Push MicroSD card into card slot to release the retention mechanism and then it will be able to be removed easily.
4. Transfer “firmware.oem” file to the MicroSD card. (A MicroSD card adapter may be required if the computer/laptop is not equipped with a MicroSD card reader.)
   A. Download update file. The file can be found @ http://www.bardhvac.com/software-download/.
   B. Unzip file after download (see Figure 3). Software file to be transferred will be named “firmware.oem” (see Figure 4).
   C. Transfer the file only (firmware.oem) to the MicroSD card (see Figure 5 on page 4).
5. Re-install the MicroSD card in MicroSD card slot on back of controller. Confirm that remote U/D jumper is in place (see Figure 2).
6. Reapply power to the controller/display via method used in Step 2.
7. Verify the firmware has installed correctly. The firmware revision displayed should match the revision of firmware downloaded or installed (see Figure 1). (The title/name of folder from which firmware was acquired should match the revision displayed if downloaded from bardhvac.com.)

After a successful firmware update, two recovery files are created and stored on the MicroSD card: firmware.old and firmware.current (see Figure 6 on page 4). The firmware.old file will restore the controller back to the firmware revision that was previously on the controller. The firmware.current is a copy of the firmware revision that is being installed on the controller. These files are only needed if there is an issue after updating.

To use these recovery files to update the firmware revision, they need to be renamed. The extension (the part of the filename to the right of the period or the underlined portion of the filename: firmware.old) needs to be renamed "oem". For example, firmware.current is only usable if renamed firmware.oem. After renaming the file, it can be used in the update process outlined in these instructions to update the controller. This prevents an update interruption or fail from rendering a controller inoperable due to not having a firmware file available. It is also a failsafe against any firmware updates that are found to be incompatible with the site/equipment. This should allow for a worry-free firmware update experience.

FIGURE 3
Unzip Downloaded Update File

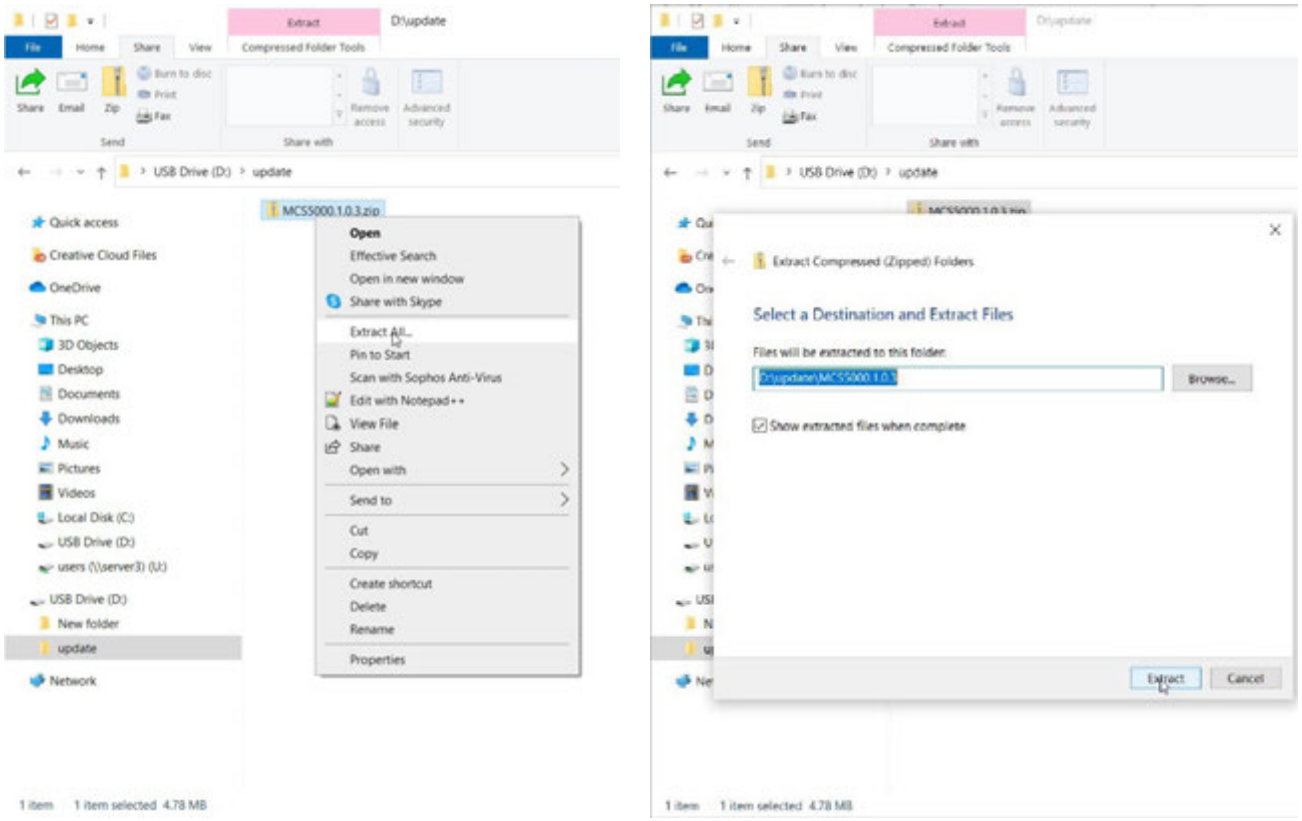


FIGURE 4
Update File

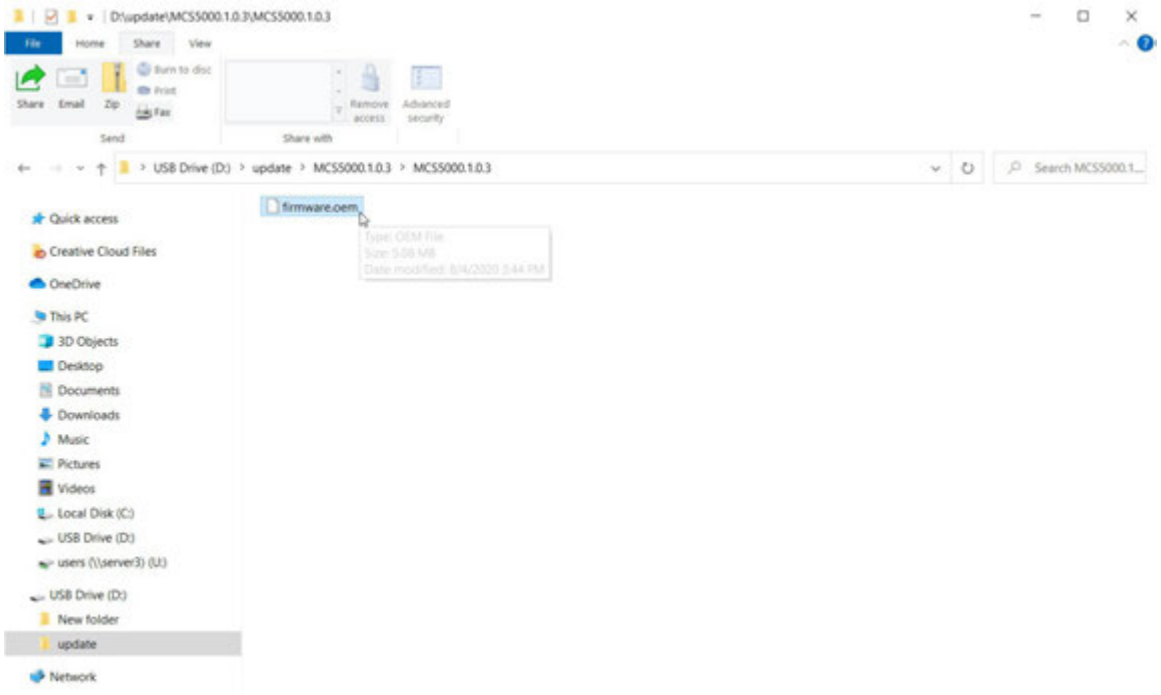


FIGURE 5
Transfer Update File to MicroSD Card

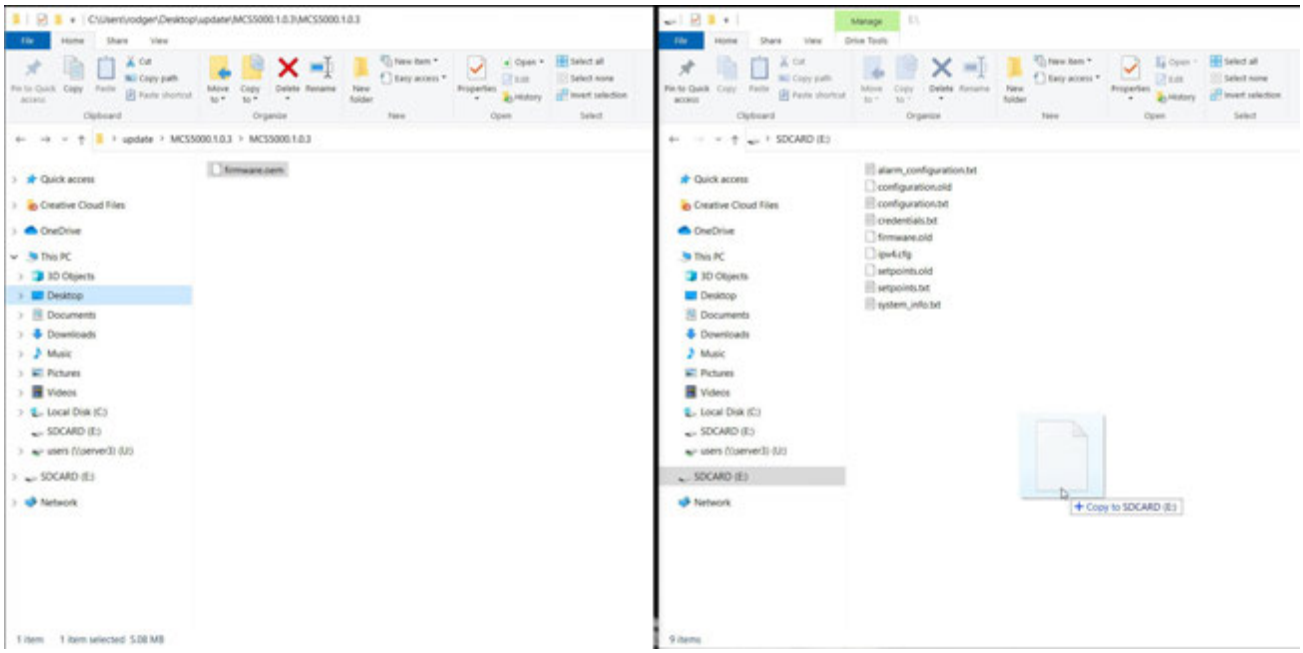
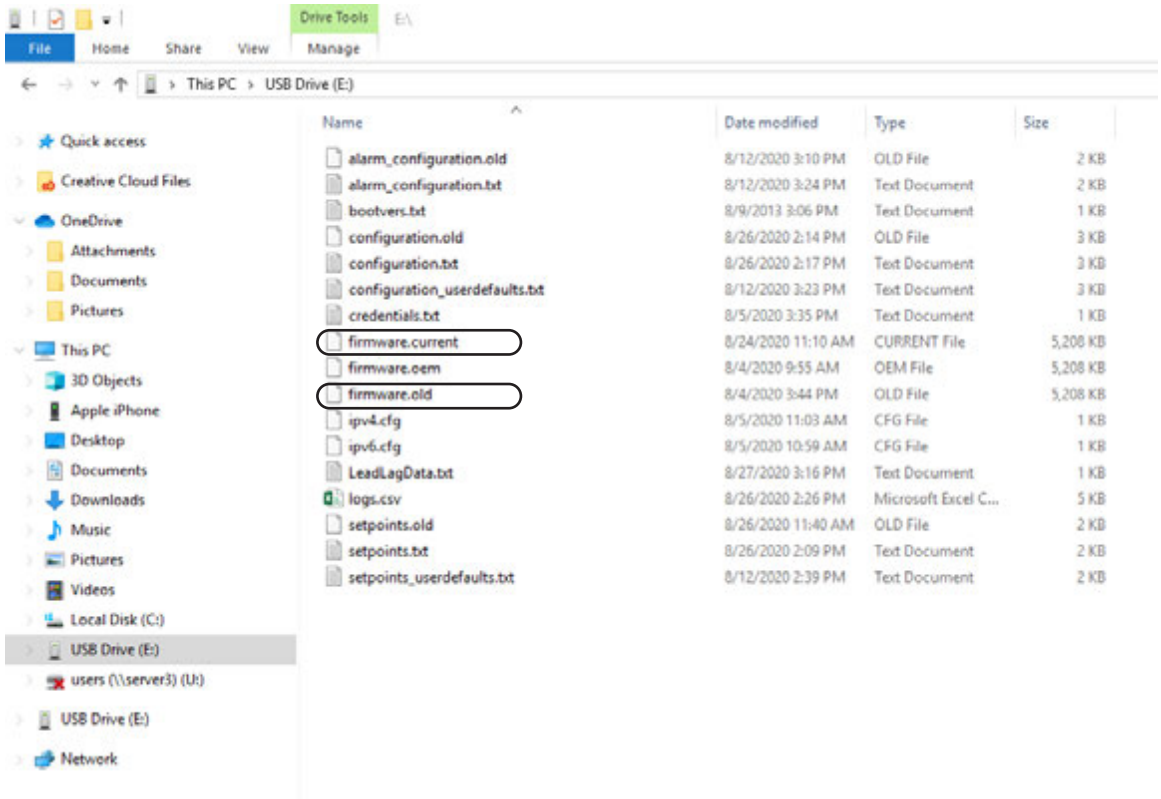


FIGURE 6
Recovery Files



Replacing/Reformatting MicroSD Card

It may be necessary to replace the MicroSD card or reformat the existing one if it becomes corrupt or unusable. If replacing, the MicroSD card must be 2GB or smaller.

Install new/existing MicroSD card into card reader in computer/laptop. Locate the SD card drive, right click on it and select format. In format screen, select FAT under file system and then click start and click ok on pop up window (see Figure 7).

After formatting is complete, go to Step 4 on page 2 and follow directions for instructions for installing new software.

FIGURE 7
Formatting MicroSD Card