PEMicro Flashing Firmware Wiki

Built by Sim:)

IntelliTouch®, EasyTouch®, SunTouch® and i-Link Firmware Updates

General Info:

I have hosted all of the files that are needed to flash so this way you don’t have to find each file separate.

Preparing:

- Connecting flash kit, be sure the grey ribbon cable with the red wire is connected correctly. The RED wire should be in the middle of the green PCB Board.
- When you plug the USB cable into the computer, you should have a orange and blue light on the flash programmer.

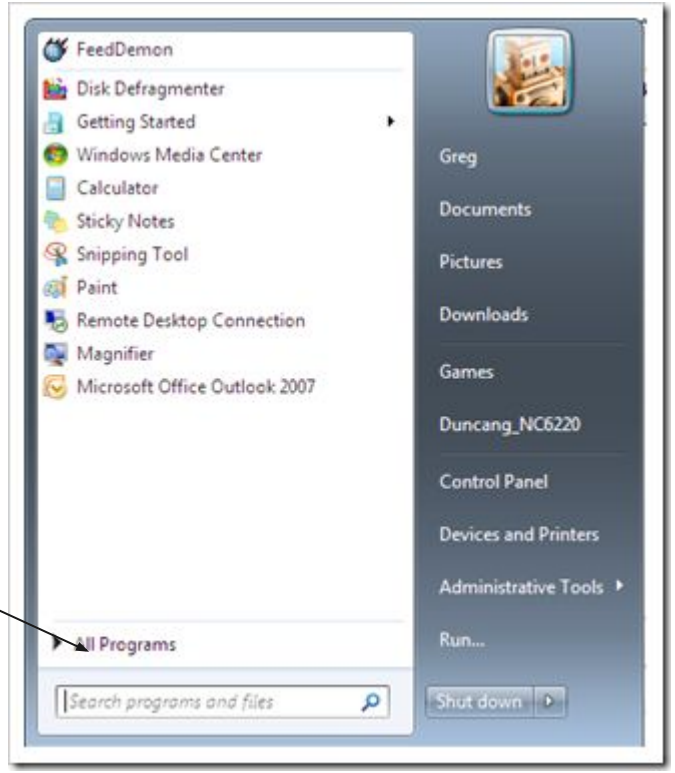
Getting started:

Step 1: Install the software that comes from CD if they don’t have CD drive following is link to install the software:

http://bit.ly/peminstall

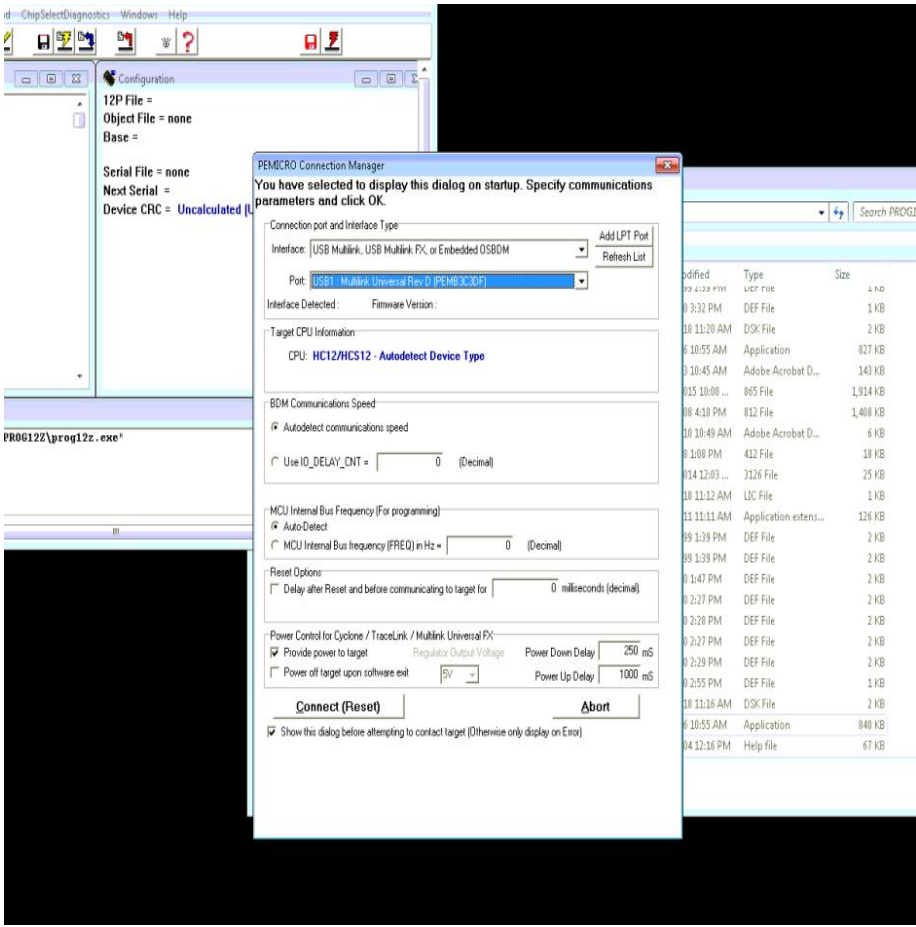
Getting started:

Step 2: After software is installed, You will then need to open PEMicro flash programmer from the All program on computer itself which will then ask for License key which is located on CD itself. After key is entered then they will need to enter their email address.



Getting started:

Step 3: Now you will need to open PEMICRO connection manager from all programs under Interface and port it should say USB Multilink if you are not seeing that it’s having issue with drivers.



Getting started:

Step 4: This step is only if you are not seeing USB Multilink.Please note the installer does install drivers but it can have issues depending on windows version. When installing the drivers, Please make sure the USB for PEMicro is unplugged however you can plug it back in when driver is installed.You can download the drivers from following link:

http://bit.ly/pemdriver

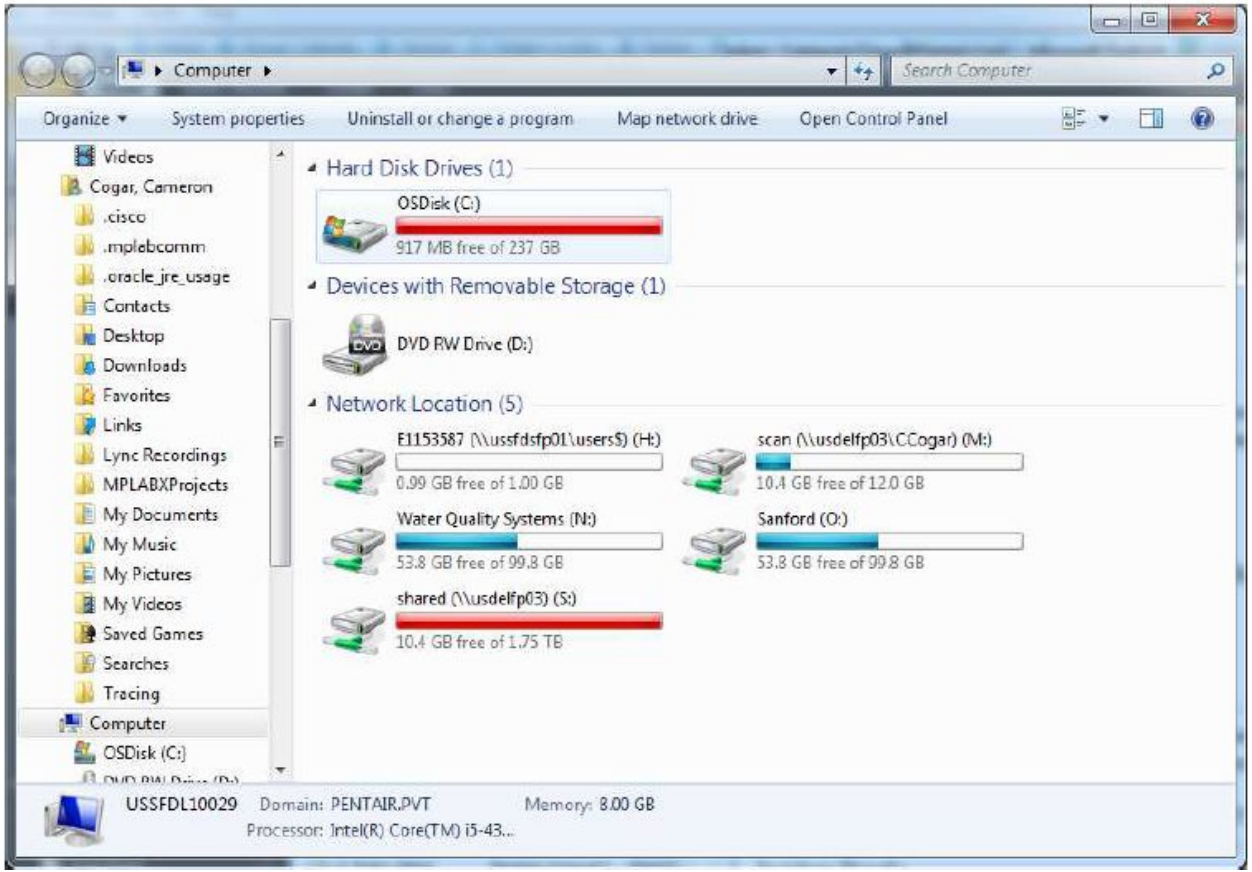
Getting started:

Step 5: After drivers are installed, You may now download firmware files which are located at following shortlink or you can visit pentairpool.com and locate the firmware files manually under software section.

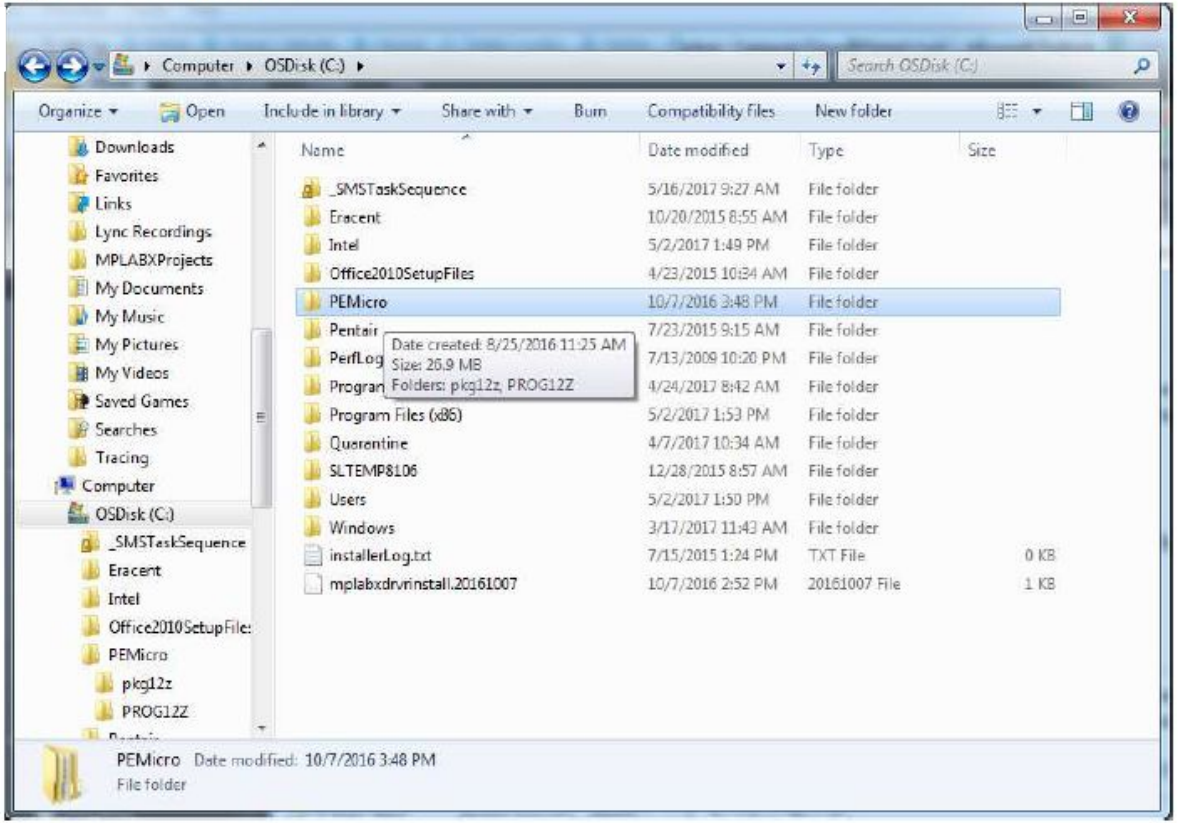
http://bit.ly/pentairfirmware

Disclaimer

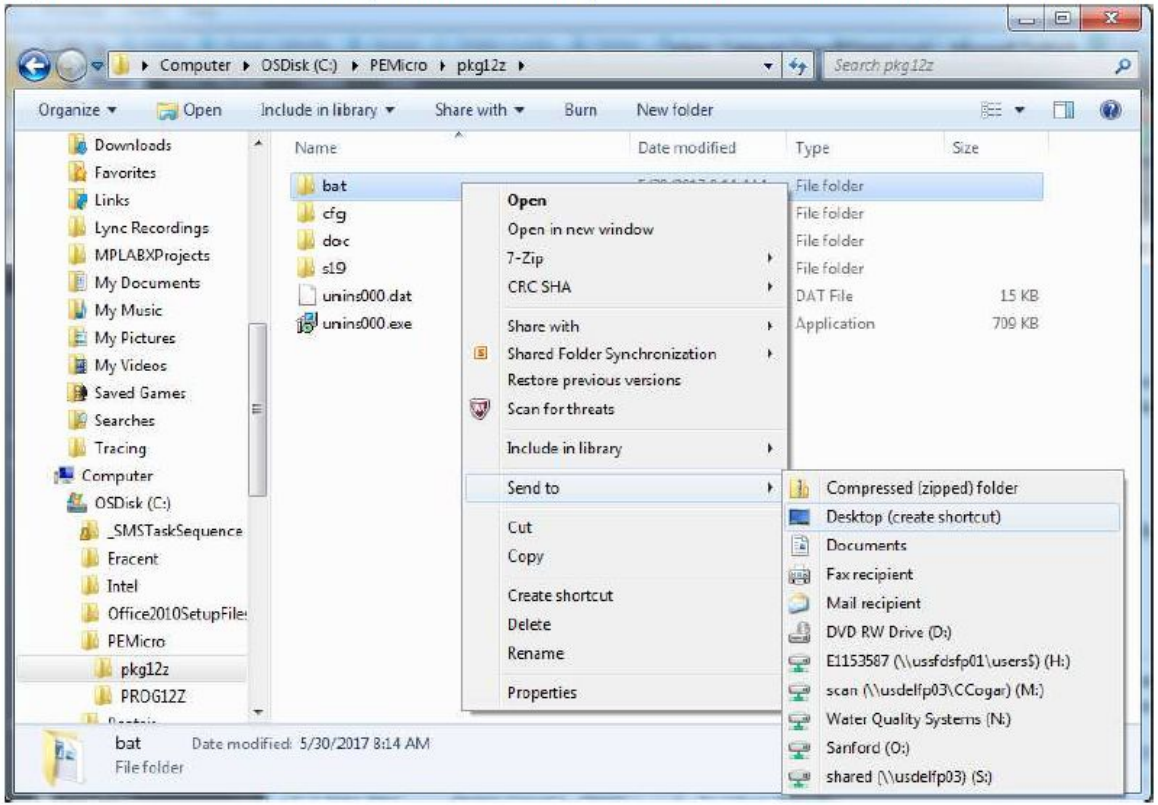
Please note when installing the firmware you install the correct firmware or else it can brick the motherboard. As default the firmware shortcut should be created on desktop. If you do not see shortcut on desktop you will then manually have to create on or just open the file manually. Which will be located under c:/PEMicro following are some screenshots of creating shortcuts and locating the files in general.


Computer
Search Computer
Organize
System properties
Uninstall or change a program
Map network drive
Open Control Panel
Videos
Cogar, Cameron
.cisco
.mplabcomm
.oracle_jre_usage
Contacts
Desktop
Downloads
Favorites
Links
Lync Recordings
MPLABXProjects
My Documents
My Music
My Pictures
My Videos
Saved Games
Searches
Tracing
Computer
OSDisk (C:)
Hard Disk Drives (1)
OSDisk (C:)
917 MB free of 237 GB
Devices with Removable Storage (1)
DVD RW Drive (D:)
Network Location (5)
E1153587 (\\ussfdsfp01\users$) (H:)
0.99 GB free of 1.00 GB
scan (\\usdelfp03\CCogar) (M:)
10.4 GB free of 12.0 GB
Water Quality Systems (N:)
53.8 GB free of 99.8 GB
Sanford (O:)
53.8 GB free of 99.8 GB
shared (\\usdelfp03) (S:)
10.4 GB free of 1.75 TB
USSFDL10029
Domain: PENTAIR.PVT
Memory: 8.00 GB
Processor: Intel(R) Core(TM) i5-43...

2.) Open the PEMicro folder

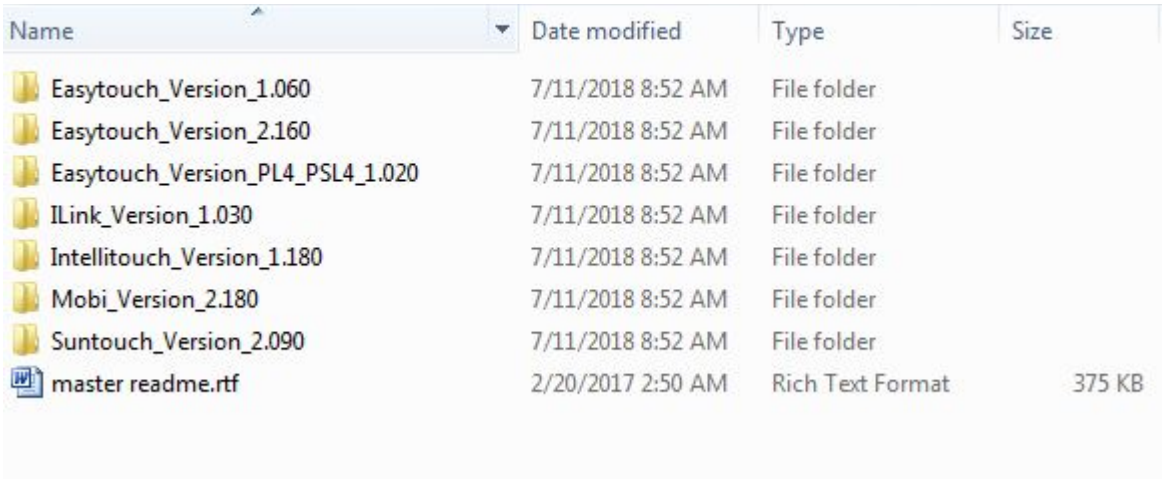


Right click on the “bat” folder, select “Send To”, and then select “Desktop (Create shortcut)”



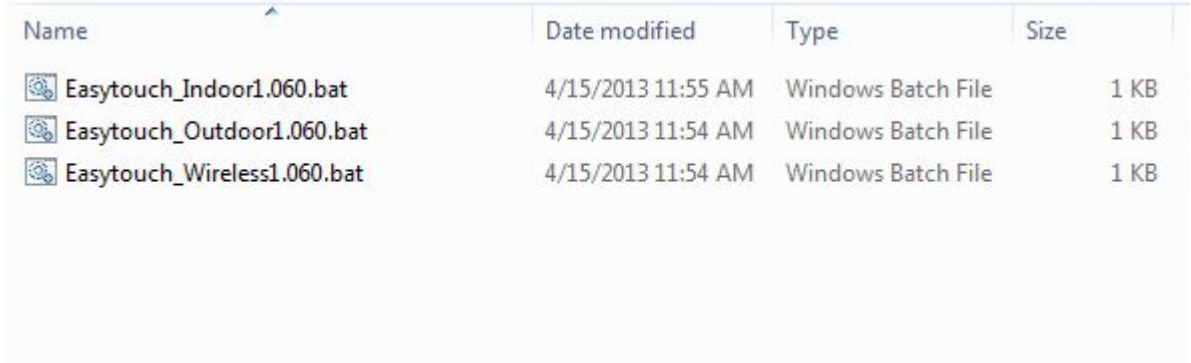
Preparing for flashing

Open the shortcut from desktop which will open the following folders list:



Preparing for flashing

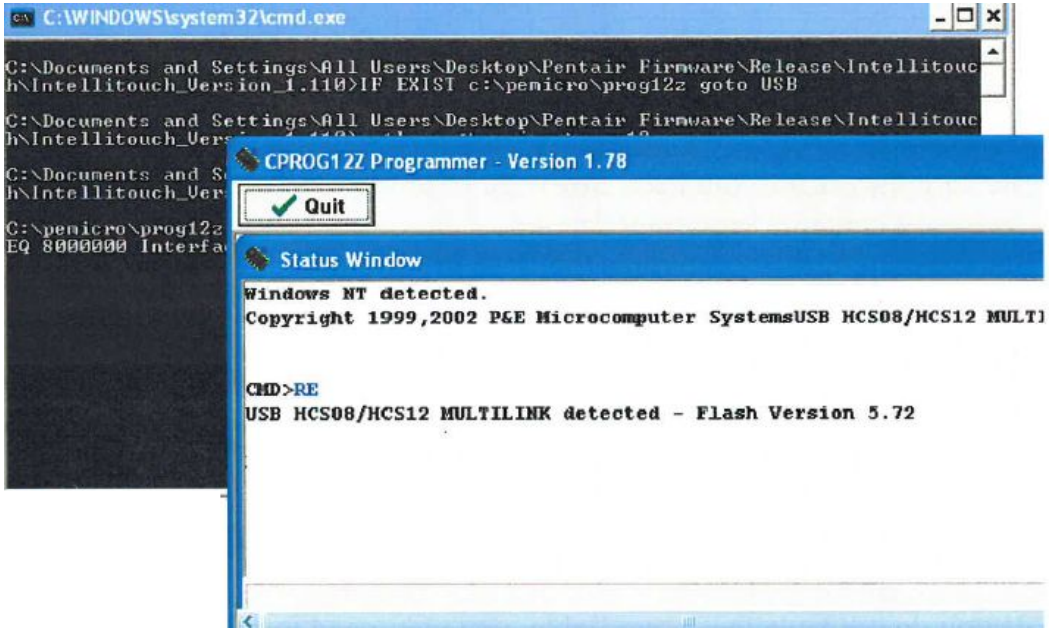
Now open the folder for that you want to run the firmware update for example shown below for easytouch outdoor.



Name	Date modified	Type	Size
Easytouch_Indoor1.060.bat	4/15/2013 11:55 AM	Windows Batch File	1 KB
Easytouch_Outdoor1.060.bat	4/15/2013 11:54 AM	Windows Batch File	1 KB
Easytouch_Wireless1.060.bat	4/15/2013 11:54 AM	Windows Batch File	1 KB

Preparing for flashing

Following is screen you will see when .bat file of your choice is running.



Error Codes

- Script Error 35 & 34:Check your connections from the flash programmer to the board. Script Error 35 & 34 means it found the flash programmer but it could not find the board to flash. . Sometime re-installing the drivers or supplying the board with external power (comports) will solve this issue.
- Script Error 45: Check the connections and be sure the USB cable is plugged into the computer. Check to see if the blue and orange lights on the P&E programmer are on. Check your settings under Start > All Programs > P&E 68HC12 BDM Programmer > PROG12Z - 68HC12 Flash Programmer

EasyTouch Notes

You CAN NOT Flash an Easy Touch ver. 1.060 to a 2.010 or higher due to the different chips that are in the new EasyTouch boards.

Updating IntelliTouch to 1.070 or Greater!

An issue can/may occur when updating an IntelliTouch system with a Firmware version older/less than 1.070 to version 1.070 or newer. It is important to follow a simple procedure to insure problems don't occur.

1. Update the firmware on the indoor panel to the current version 1.070 (or newer).
2. Erase the memory on the indoor panel. a. Press "Menu" b. Press "Setup" c. Press "Advanced" d. Press the 2nd and 4th bottom buttons at the same time to enter the hidden service screen. e. Press “Erase EEprom – All !!” and follow prompts pressing “Yes” and then “Erase”

Updating IntelliTouch to 1.070 or Greater!

3. Allow the unit to recover the system settings from the outdoor panel. This will take a minute or so.
4. Update the firmware on the outdoor panel to the current version 1.070 (or newer). 5) Erase the memory on the outdoor panel.a. Press "Reset" – the 3 LEDs on the left showing system mode will all light at the same time. b. Wait a second or two and then press the AUX 5 button. c. The 3 LEDs will flash off and then back on indicating the erase took place.

Updating IntelliTouch to 1.070 or Greater!

5. Insure the memory retrieval occurs again by looking at the indoor panel, passing the data again. This should insure a clean update.
6. If you have multiple indoor panels, simply follow steps 1, 2 and 3 for each panel. - Expansion load/power centers do not require any updating