

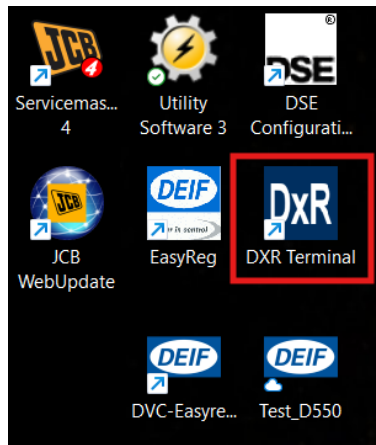
TG002: Programming Mecc Alte AVR's - (DSR, DER1, DER1A, or DER2A)

Mecc Alte AVR's need to be programmed for the generator model they are being used on when:

- You install a replacement AVR.
- Unsure that the settings in the AVR.
- Troubleshooting a generator output or AVR related issue.

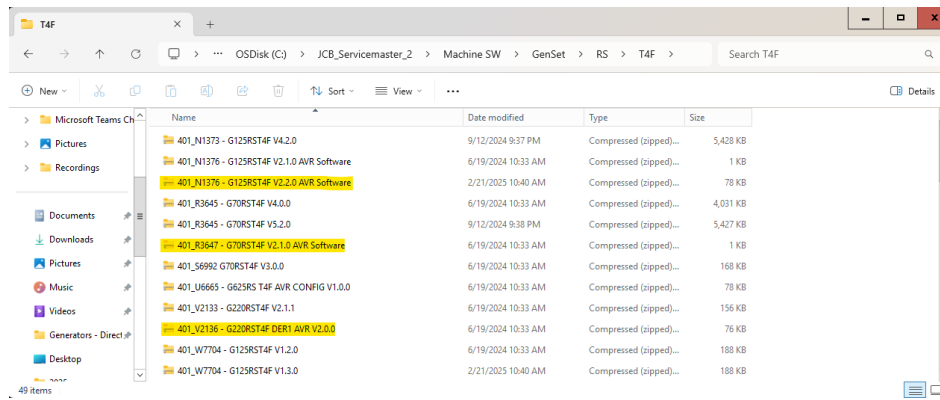
Items Needed:

- Mecc Alte 'DXR Terminal' Software (Available at <https://www.meccalte.com/en/download-area> Scroll down to Software, Click on DxR Terminal – Software to download)



Screenshot 1: DXR Terminal Icon

- Model specific AVR settings file supplied by JCB. These are located in the Servicemaster folder:
C:\JCB_Servicemaster_2\Machine SW\GenSet\RS\T4F



Screenshot 2: Examples of some JCB Generator Mecc Alte AVR Files - Use PDF at the bottom of this folder as a guide.

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- Mecc Alte DXR2USB Dongle with cables (Mecc Alte PN 4505005608 - JCB PN 400/02986)



Procedure:

Step 1: Make sure the machine is shut down and the battery isolator is in the off position.



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Step 2: Install the new replacement AVR. Make sure each connector or jumper is back in the correct spot. Take good photos or write down wire to AVR Terminal numbers. **(Skip this step if you just need to update the settings file in the AVR.)**



Step 3: Connect the DXR2USB dongle to the AVR using the small, jacketed communication cable and then connect the DXR2USB dongle to your computer using the USB cable.



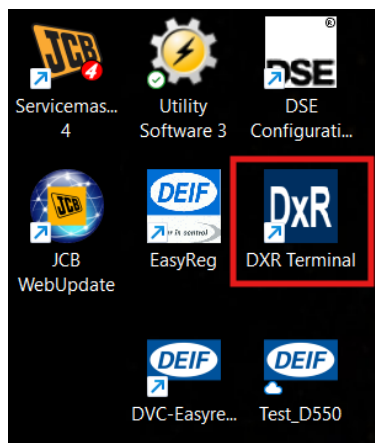
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Step 4: Close the door to the main circuit breaker routing the AVR cable to the edge near the door locks. Close the battery isolator switch and start the generator. You may have to adjust the generator voltage adjustment knob to bring the generator voltage within acceptable range.



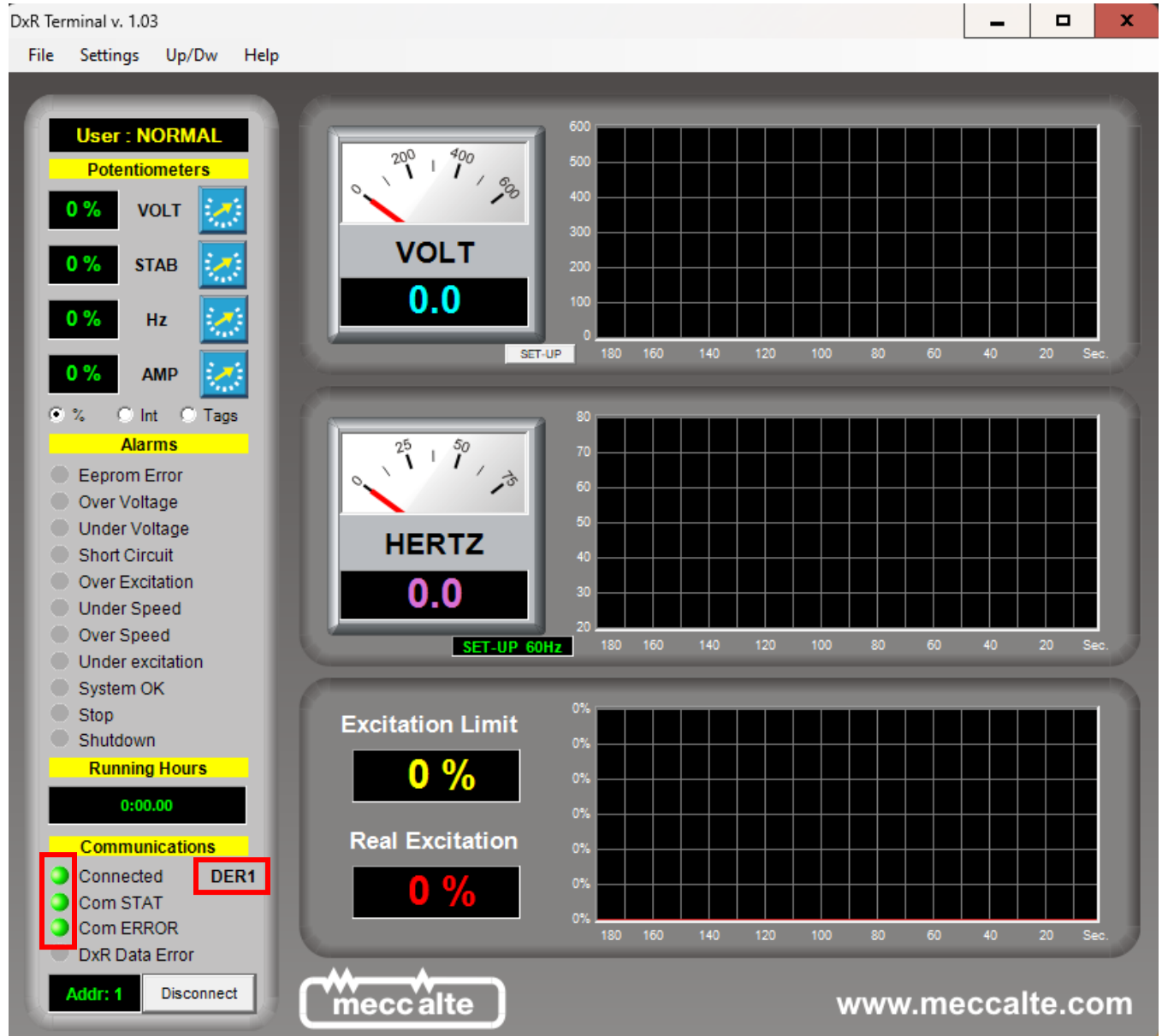
Step 5: Launch the 'DXR Terminal' software on your computer using the desktop icon shown below:



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Step 6: The software will open and then click the “Connect” button located at the bottom of the left-hand portion of the app. Once properly connected, you will have the three green ‘lights’ in the ‘Communications’ section of the screen and the model type of AVR will display in **BOLD** just to the right as shown in the red boxes below.

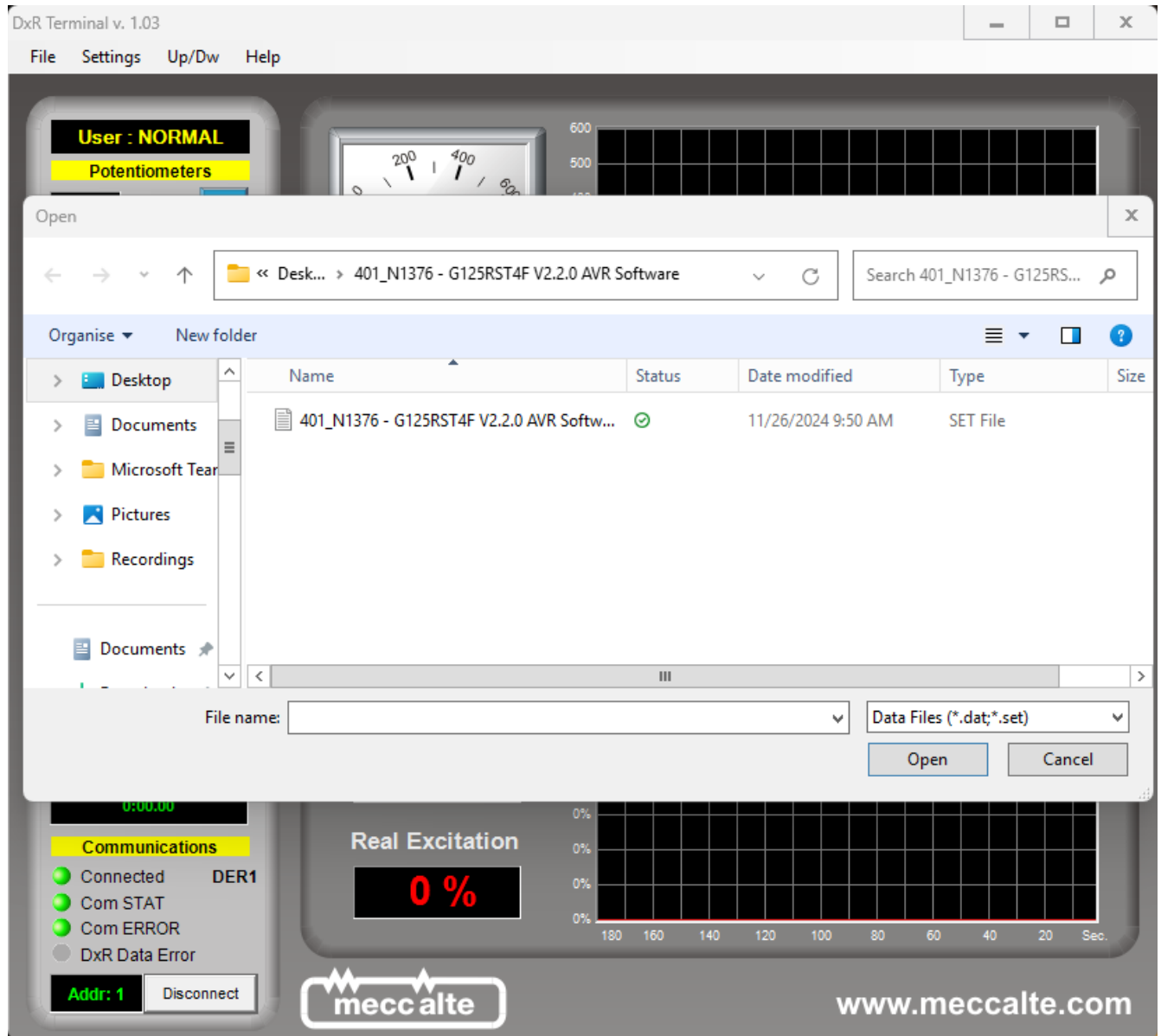


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Step 7: To upload settings, click on the ‘Up/Dw’ button on the status bar at the top of the screen. This will open an explorer box to allow you to browse and find your settings file to load. Mecc Alte settings files are listed as a **.set** file type.

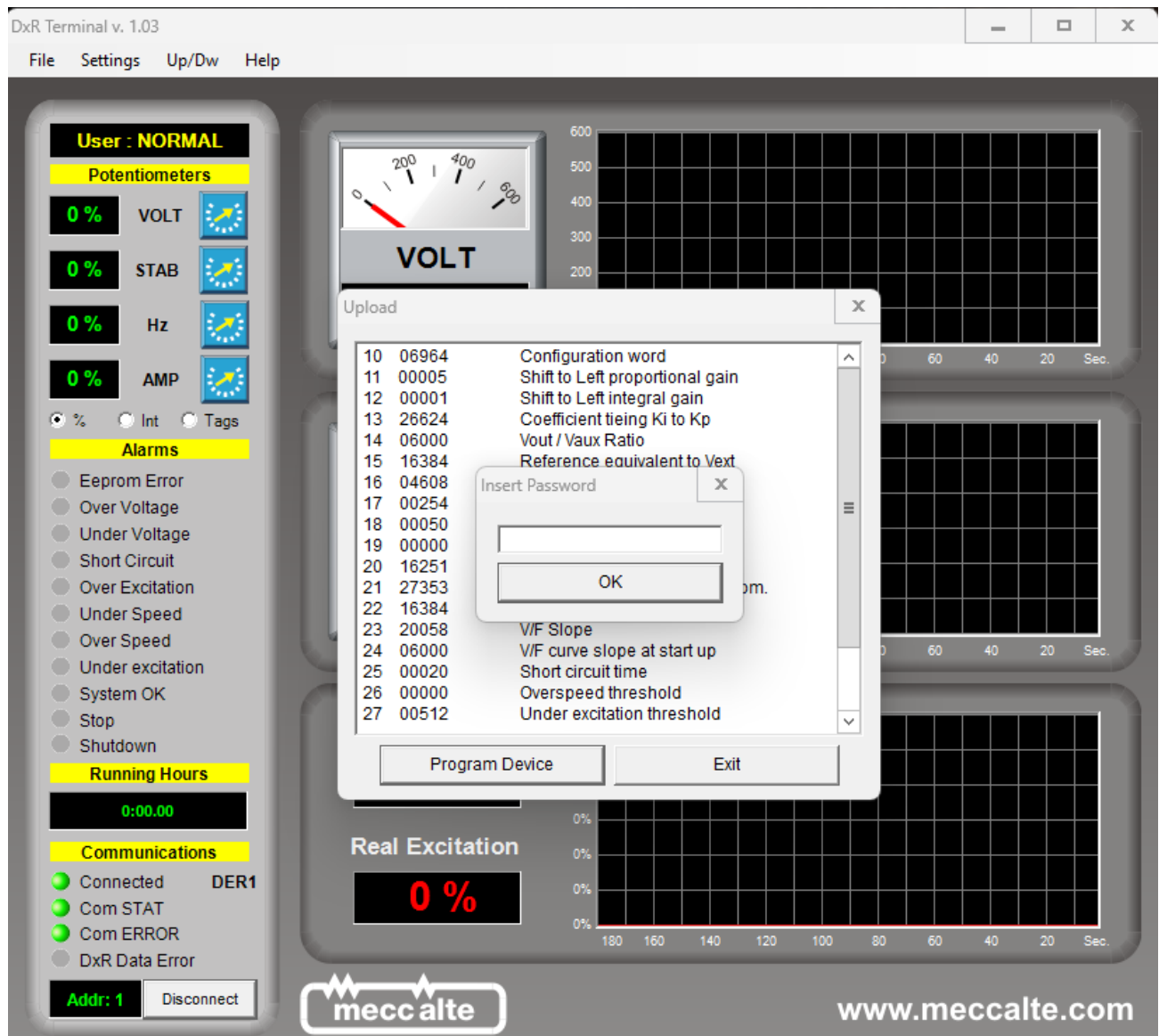
Locate the appropriate AVR settings file by model and generator control panel configuration. Once found, click on the settings file and then click the ‘Open’ button to continue.



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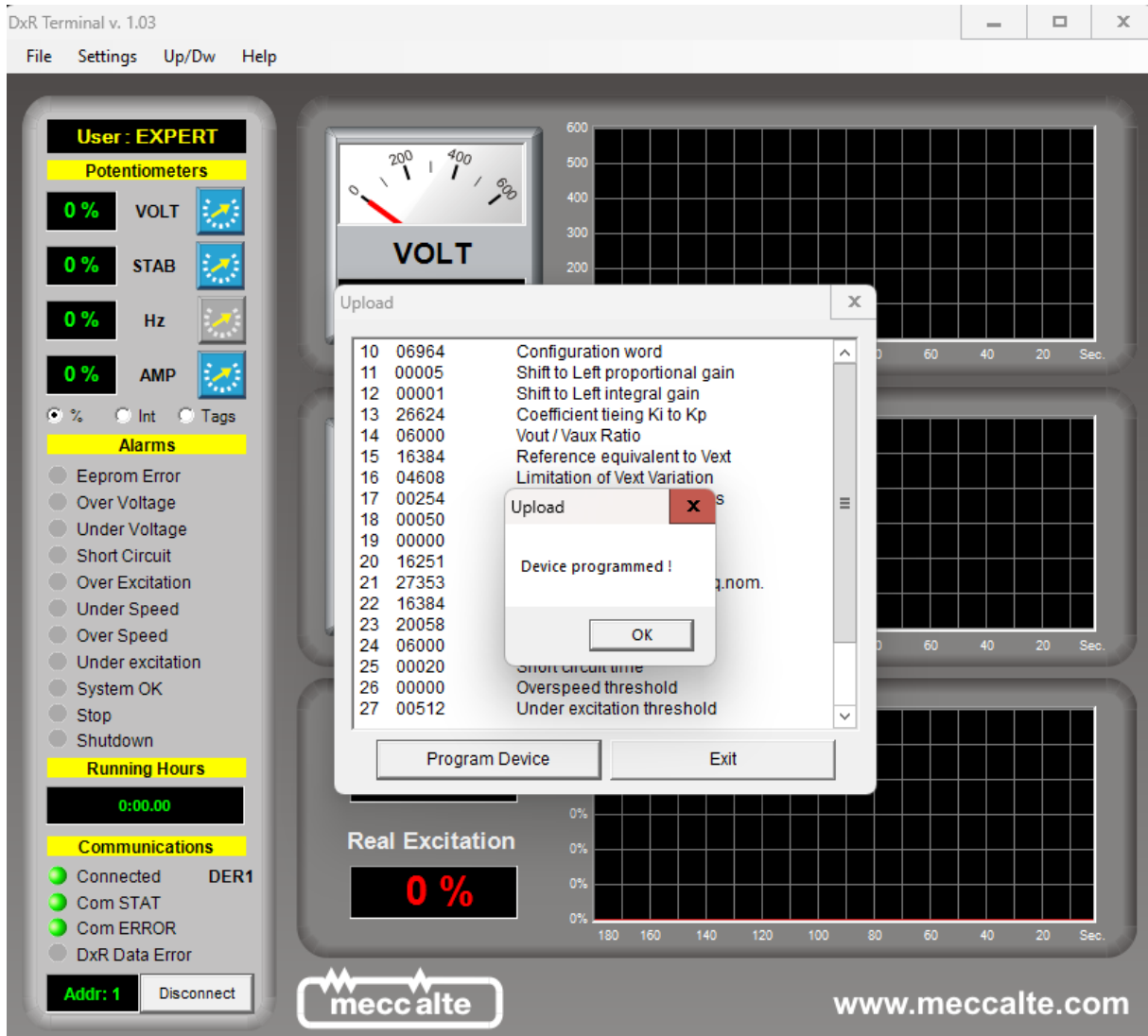
Step 8: Once selected, the 'Upload' box will appear with the various parameters contained within the selected settings file. Click the 'Program Device' button and you will be prompted to provide a password. The password for all Mecc Alte AVR's is: **meccalte**



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Step 9: Once you click the 'Ok' for the password entry, you will quickly see the pop-up that states your upload was successfully programmed. Click 'Ok' and then the 'Exit' buttons to exit the programming process. Power down your AVR and install it via the JCB schematic and then test operation of the generator to confirm proper operation.



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Step 10: Stop the generator, open the battery isolator after a minute and then you are safe to open the door to the breaker cabinet. Remove the AVR programming cable carefully and then close the door back to the breaker cabinet.

Downloading From the AVR: Select “Up/Dw”, then download to open the menu below. You can now save all data, settings only, or alarms only. I recommend saving all three before starting any troubleshooting or AVR replacement. Save these in a folder in case they are needed for warranty.

