



AQR Communication Board

How To Guide



How To: Connecting Hardware (1 of 3)

These steps outline how to properly install and connect the AquaRite daughter board (*OmniLogic software revision must be 3.0.0 or higher*).

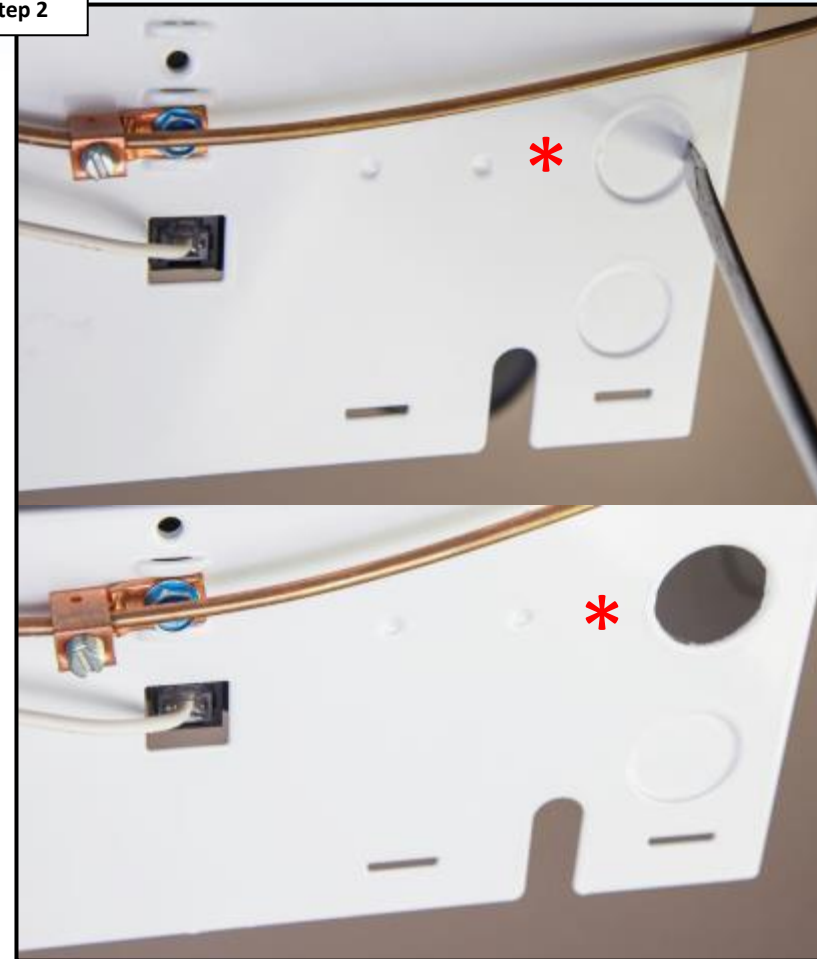
Step 1



1. Power Down
2. Disconnect cell plug
3. Remove dead front

After removing power to the AquaRite, disconnect the cell cable. Then remove the dead front by loosening the two retention screws.

Step 2

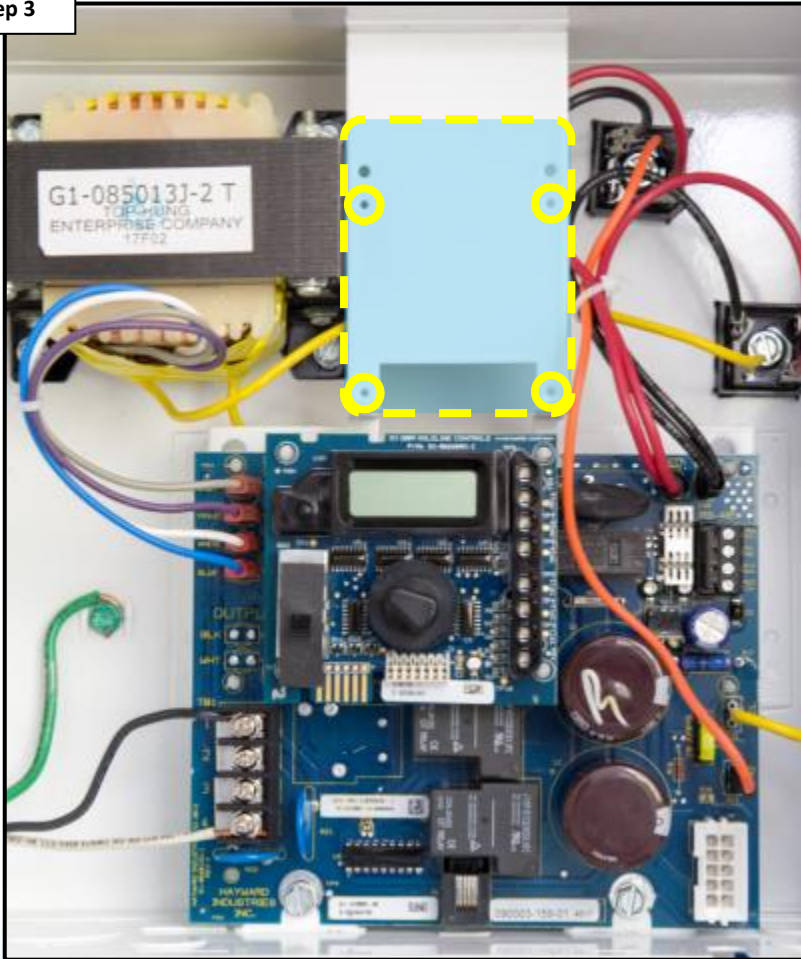


On the bottom of the enclosure, close to where the cell plugs in, use a flat head screwdriver to remove a knockout to be used for communication.

How To: Connecting Hardware (2 of 3)

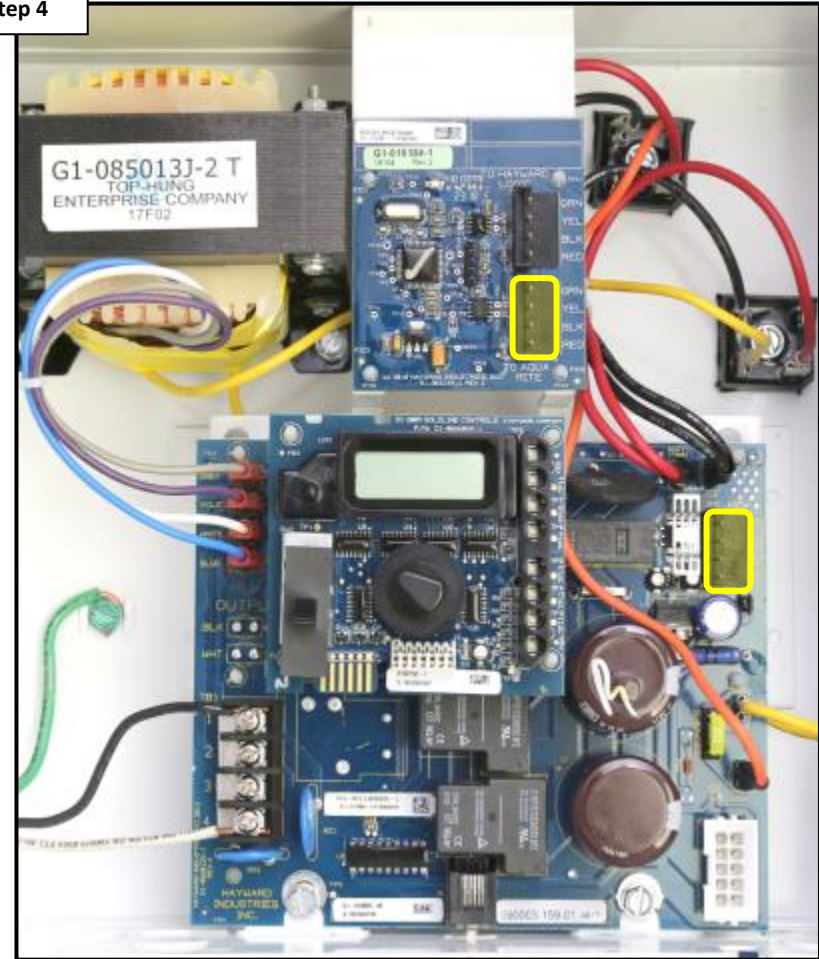
These steps outline how to properly install and connect the daughter board.

Step 3



Locate the metal support bracket. The four small mounting feet, on the communication board, should be pressed firmly into the small holes of the metal bracket .

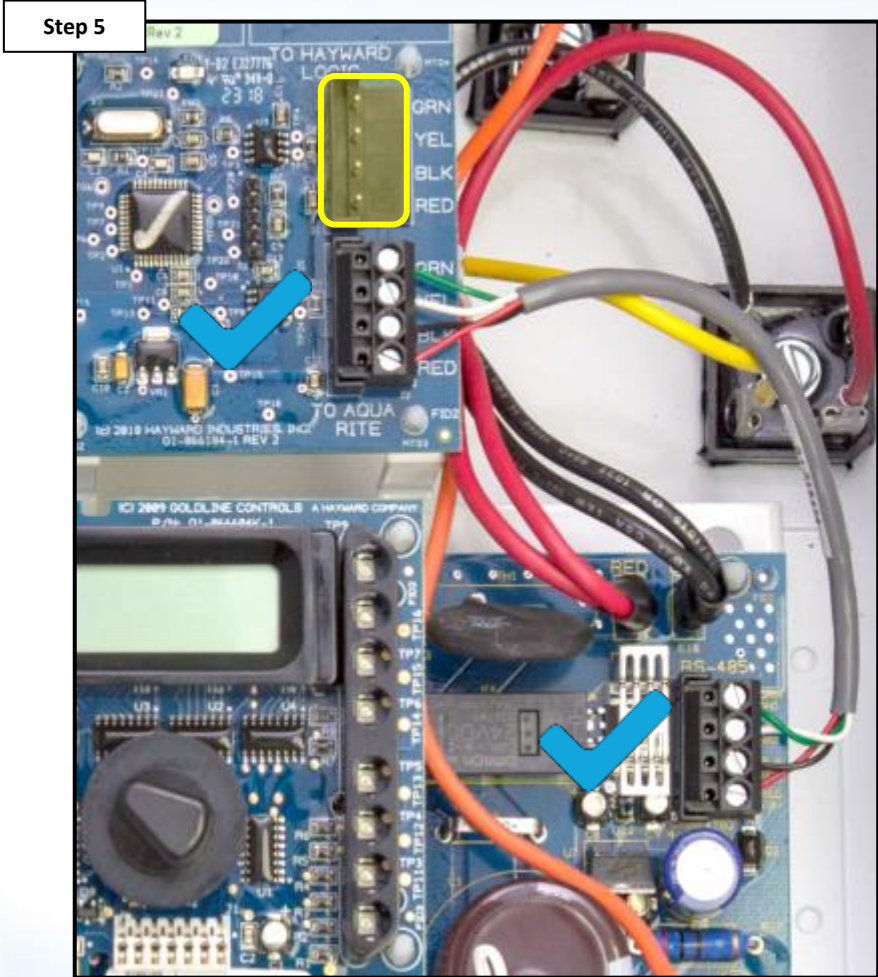
Step 4



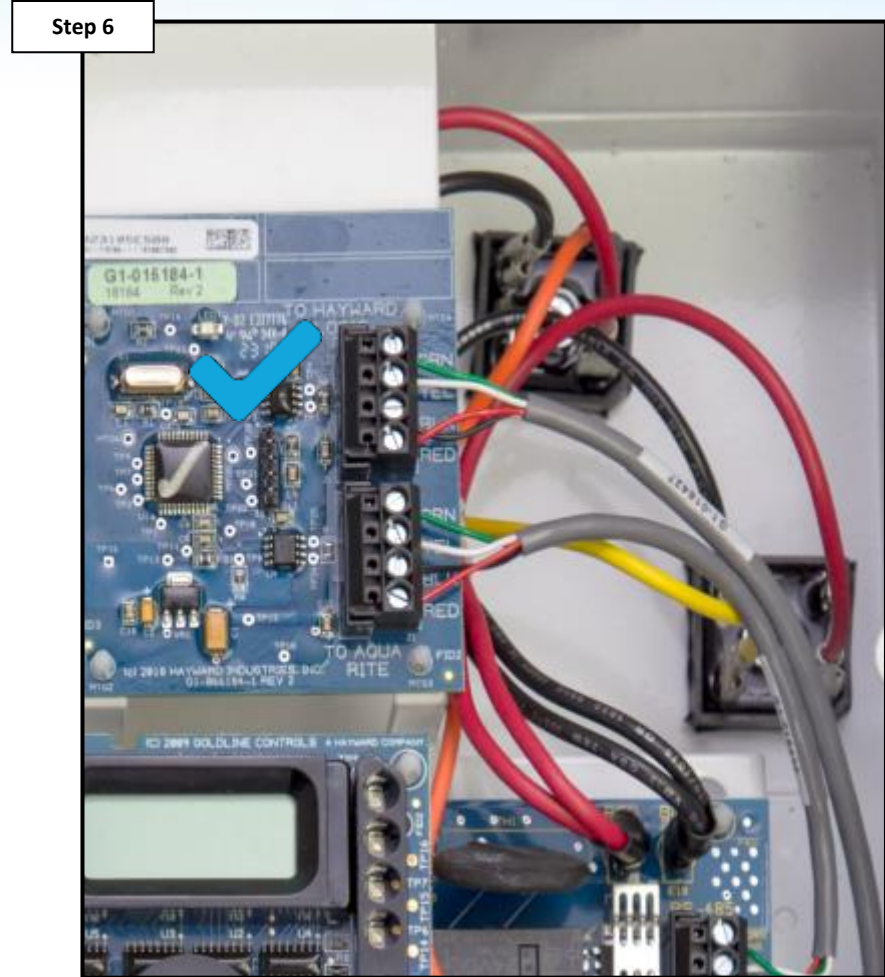
Install the short 6" wiring harness. One end connects to the bottom terminal of the communication board, the other to the AquaRite RS485 port.

How To: Connecting Hardware (3 of 3)

These steps outline how to properly install and connect the daughter board.



On the communication board, inside the AquaRite, install the four pin terminal block (this is located in the top position).



The other end of this wire should be installed in the Omni system (this is necessary for the two systems to communicate).

How To: Connecting Hardware (3 of 3)

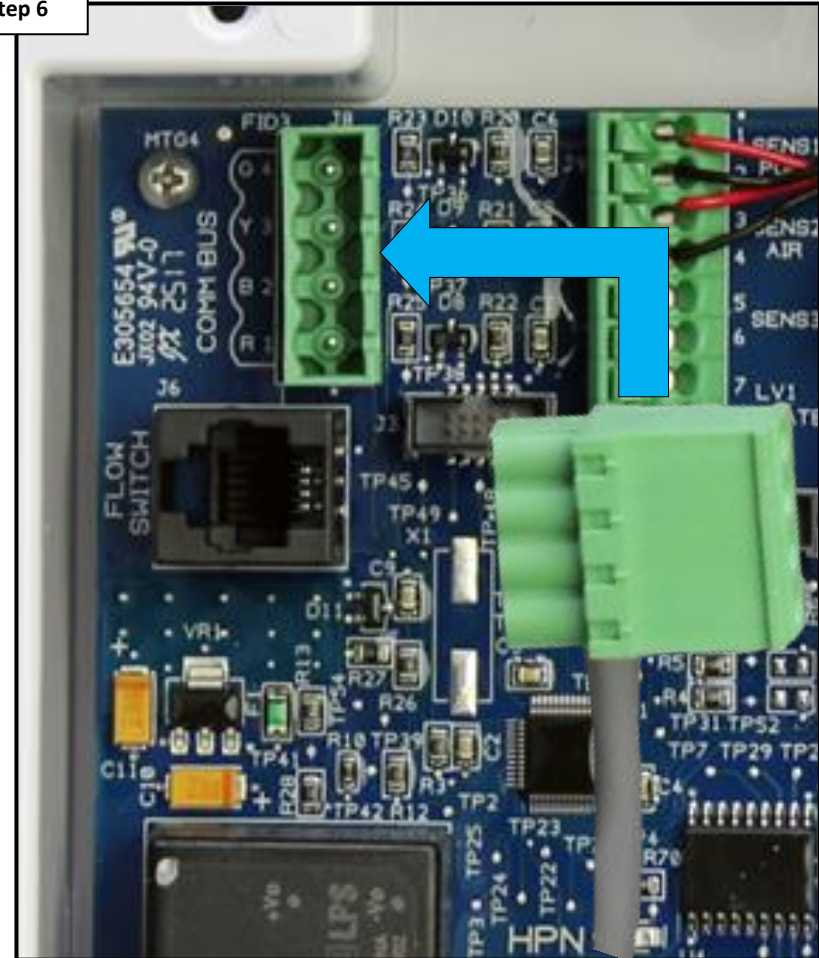
These steps outline how to properly install and connect the daughter board.

Step 5



Inside the VS Omni, disconnect RS485 wiring block and wire with com wire from the AquaRite.

Step 6



Once wired, reconnect the RS485 plug into the VS Omni board as shown above.

How To: Clear Comm. Issue

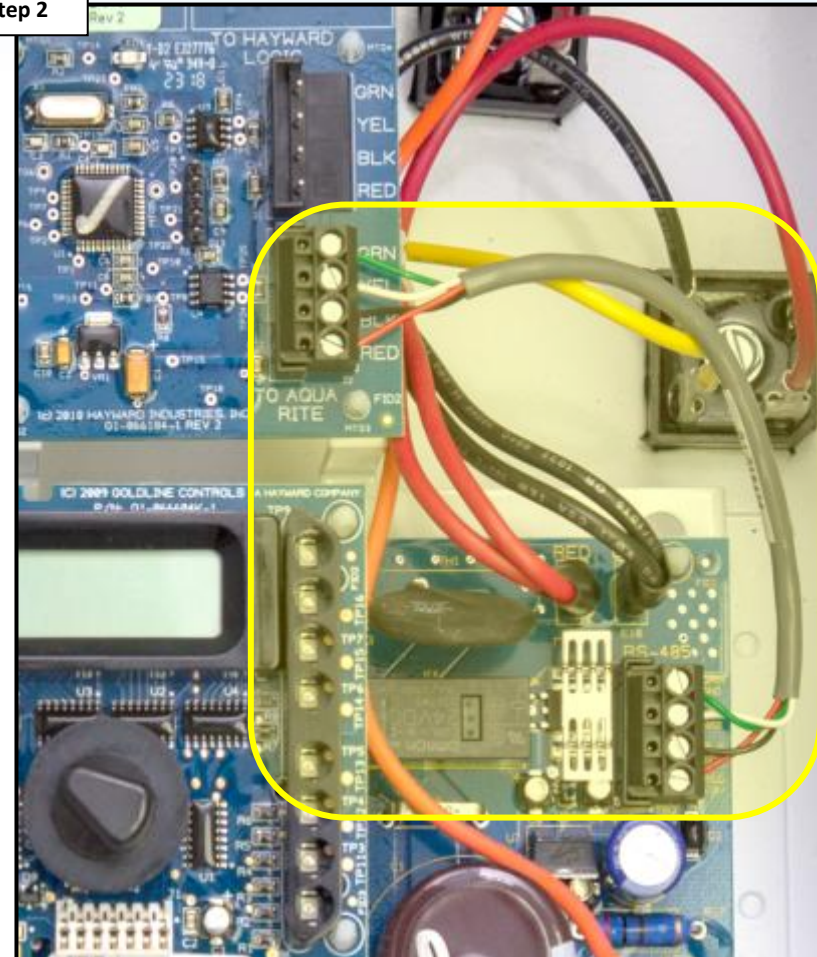
These steps outline how to properly troubleshoot for a communication issue between the AquaRite and the daughter board .

Step 1



Verify that the AquaRite has power. If the power light on the AquaRite is off, correct incoming power issue. If the power light is on, then proceed to Step 2

Step 2

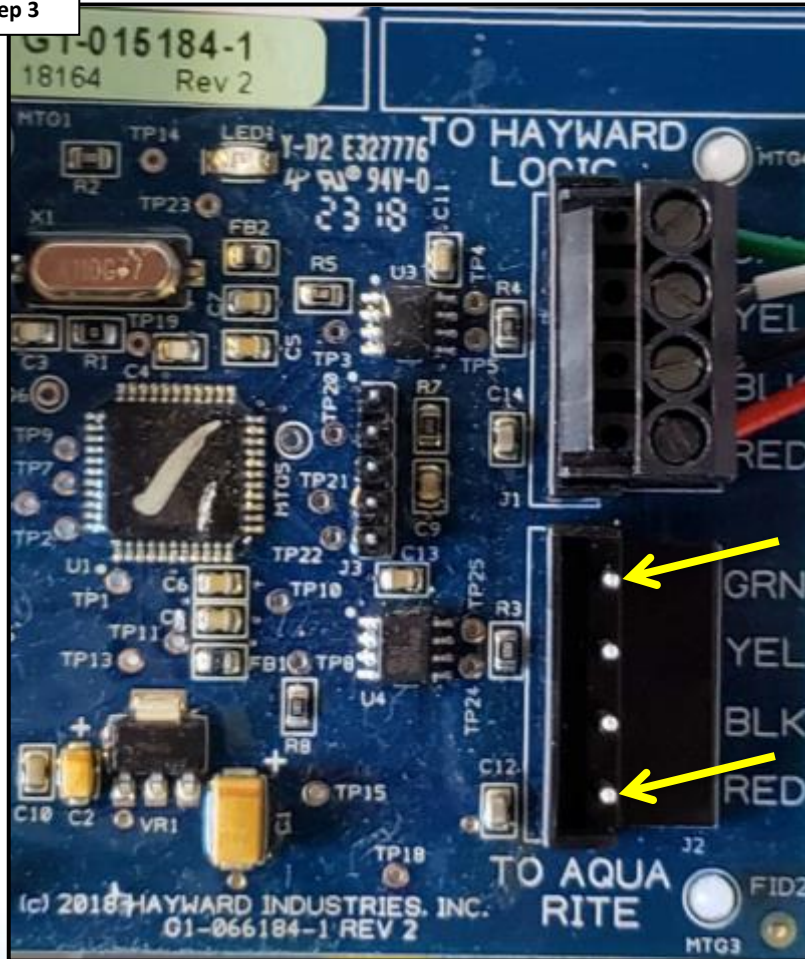


Inspect wiring between AquaRite and the daughter board. If the wiring is damaged, replace wiring. If the wiring is good then proceed to Step 3.

How To: Clear Comm. Issue (cont.)

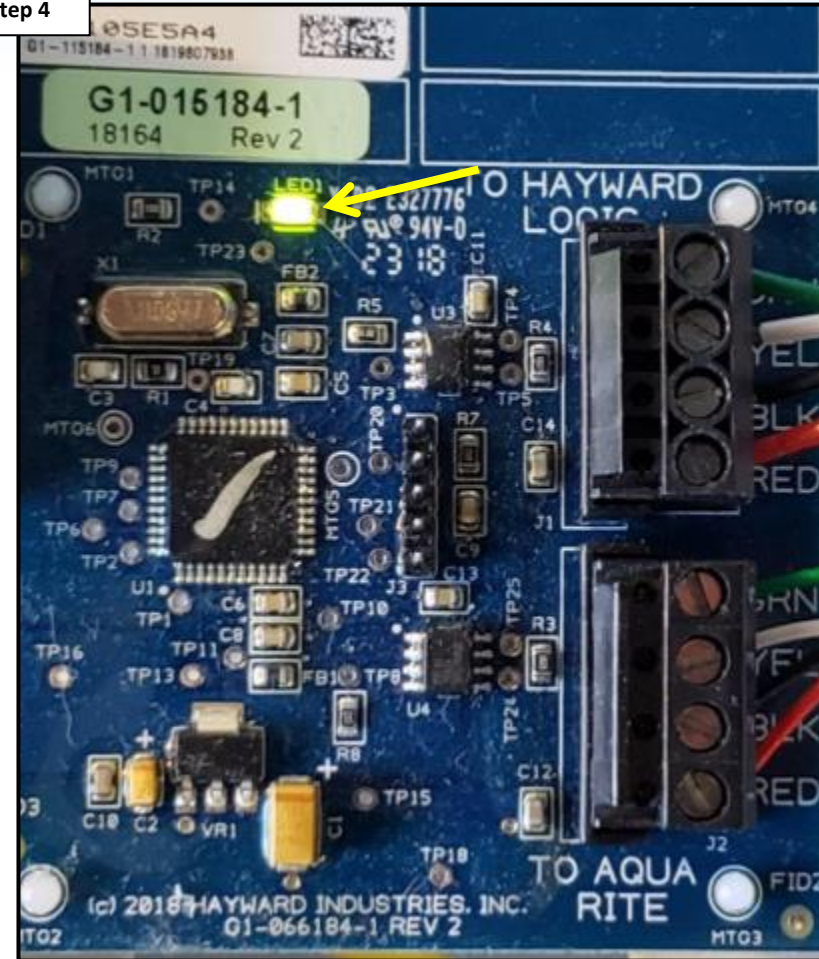
These steps outline how to properly troubleshoot for a communication issue between the daughter board and the AquaRite.

Step 3



Test Pins 1 & 4 for 12V DC on the daughter board. If 12V DC is present, inspect wiring. If 12V DC is not present, go to Step 4.

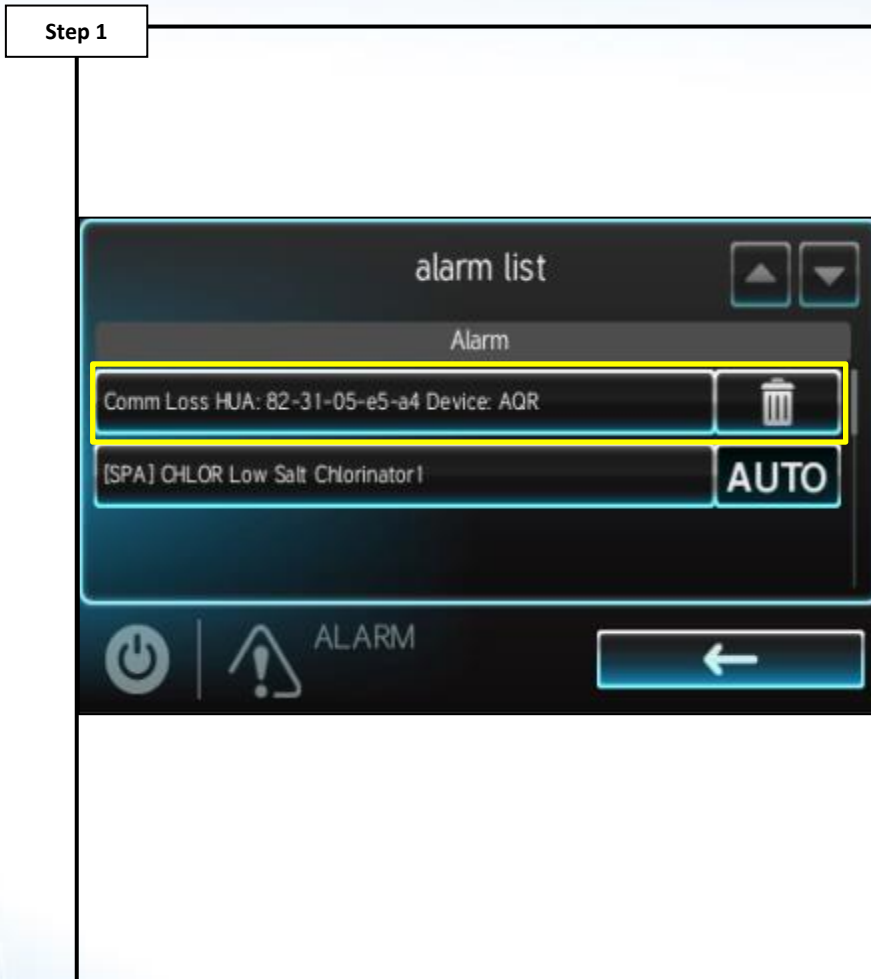
Step 4



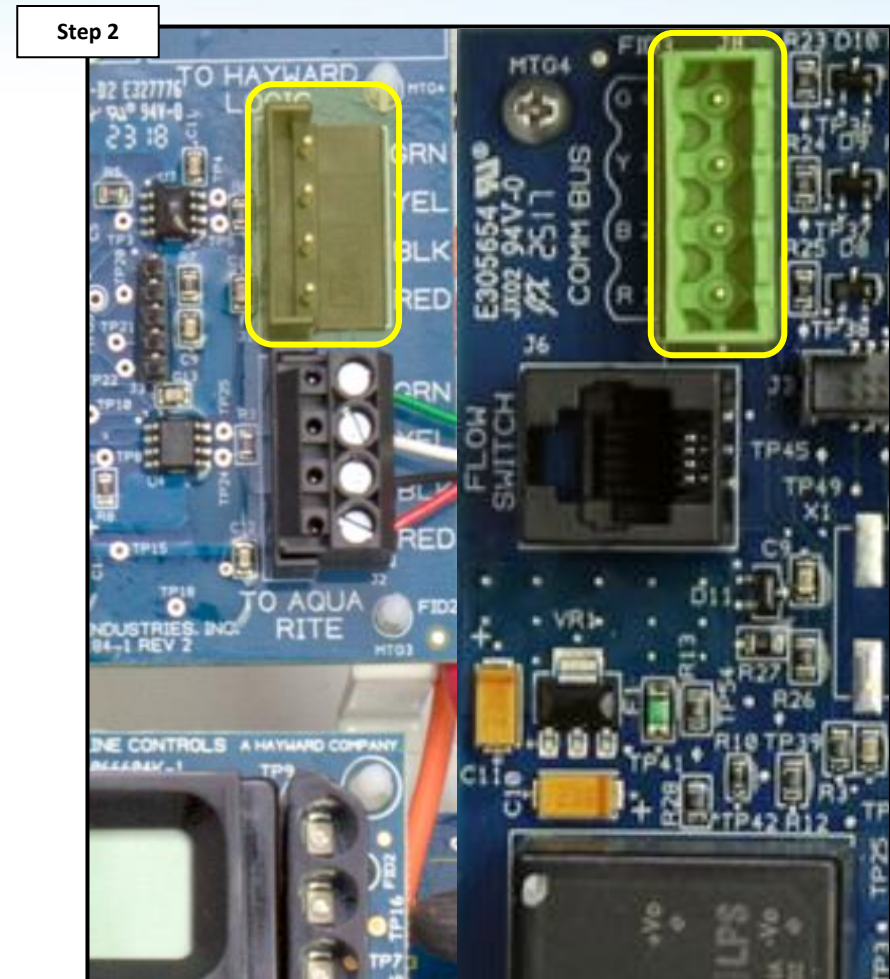
Verify that the LED light on the daughter board is lit and flashing every six seconds. If it is not lit and flashing, replace the daughter board.

How To: Clear Comm. Issue (cont.)

These steps outline how to properly troubleshoot for a communication issue between the daughter board and the OmniLogic / OmniHub.



Verify that the AquaRite has power. If the power light on the AquaRite is off, correct incoming power issue. If the power light is on, then proceed to Step 2.

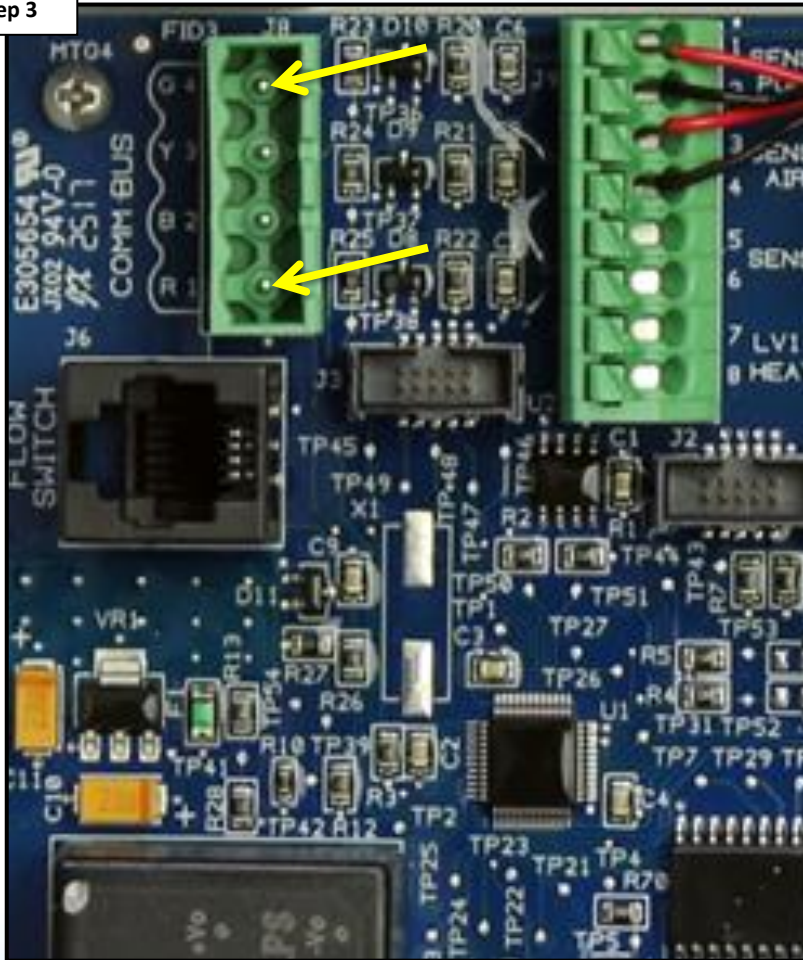


Inspect the wiring between the daughter board and the Omni. If the wiring is damaged, repair or replace, if not, proceed to Step 3.

How To: Clear Comm. Issue (cont.)

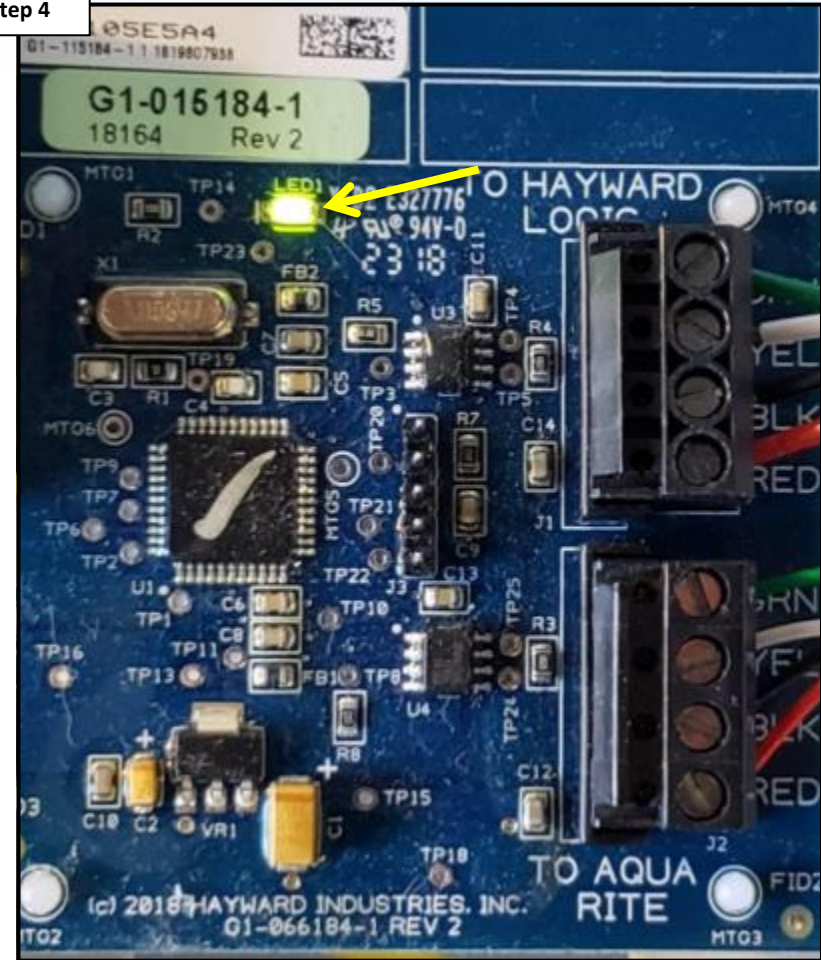
These steps outline how to properly troubleshoot for a communication issue between the daughter board and the OmniLogic / OmniHub.

Step 3



Test pins 1 & 4 for 12V DC at the RS-485 connector on Omni board. If there no voltage, check for power issue with Omni. If 12V DC is present, verify wiring is good. If wiring is good, proceed to Step 4.

Step 4



Verify that the LED light on the daughter board is lit and flashing every six seconds. If it is not lit and flashing, replace the daughter board.