Required Tools

- Phillips screwdriver
- Needle-nose pliers
- Crescent wrench
- Hobby knife with a fine point and sharp blade

Assemble the Antenna Riser

1. Remove the antenna assembly and antenna from its packaging.
2. Set the short piece of antenna cable aside to be used in a later step.
3. Remove the plastic cap, the nut, and the lock washer from the stem of the antenna.
4. Put the stem of the antenna through the mounting hole on the top of the antenna riser so the antenna is positioned on top of the riser.
5. Put the lock washer onto the stem of the antenna, and then thread the nut onto the stem. Use a wrench or pliers to tighten the nut sufficiently to ensure that the antenna makes good contact with the outside of the antenna riser.
6. Thread the coax connector on the antenna cable onto the stem of the antenna and hand-tighten it. Route the antenna cable towards the bottom of the antenna riser.
7. Insert the tabs on the backing plate into the holes at the top edge of the riser and make sure the plate is snug along the back of the riser.

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Prepare the Mounting Location for the Antenna Riser

1. Open and remove the front door on the lower part of the pedestal.

2. On the inside left wall of the pedestal, remove the nuts from the bolts that secure the cover on the outside wall. Set the nuts aside to be replaced in a later step.

3. Remove the bolts that are holding the cover on the outside wall. Set the bolts aside to be replaced in a later step.

4. Remove the cover from the outside wall, making sure that the gasket stays in place.

5. On the inside left wall of the pedestal, find the opening that is covered by the gasket. Use a sharp hobby knife to poke a small hole to mark the center of the opening.

6. Remove the gasket and place it on a solid surface. Use the hobby knife to cut a small X that intersects the small hole that you made. Make each cut approximately ½ inch long.

   **Note:** This opening is used to route the antenna cable inside the pedestal in order to connect it to the cell modem. Make the X large enough to pass the cable through, but small enough to maintain the seal.

7. Position the gasket on the outside wall of the pedestal so the bolt holes are aligned and the small X is aligned with the opening for the antenna cable.

   **Note:** You’ll need to hold the gasket in place while you attach the antenna riser in the next step. For this part of the procedure, it’s nice to have a helper.
Attach the Antenna Riser to the Pedestal

1. Feed the free end of the antenna cable through the small X that you made in the gasket and into the inside of the pedestal.
2. Align the holes at the bottom of the antenna riser with the holes in the gasket at the mounting location on the outside left wall of the pedestal.
3. Working from the outside of the pedestal, insert the bolts that you removed earlier into the four holes.
4. Working from the inside of the pedestal, thread the nuts that you removed earlier onto the four bolts. Tighten the nuts snugly.

Attach the Antenna Cable Adapter

1. Working from the inside of the pedestal, thread the brass end of the antenna cable adapter into the end of the long antenna cable. Tighten the connection securely.
2. Connect the other end of the antenna cable adapter onto the stem of the Wi-Fi module and hand-tighten it.
3. You can gently push the excess length of antenna cable back through the pedestal wall so it is held within the antenna riser.

IMPORTANT! Do not bend or kink the antenna cable.
Install the Wi-Fi Module

1. Power down the controller.

2. Align the holes on the Wi-Fi module mounting plate with the standoffs to the left of the control board. Use the screws provided to securely attach the module inside the pedestal.

3. If necessary, carefully turn the Wi-Fi module in the mounting bracket so the indicator lights are visible.

4. Inspect the cable coming from the bottom of the Wi-Fi module. A label identifies the end of the cable that is plugged into the Wi-Fi module. If you ever need to disconnect or replace this cable, make sure to plug the labeled end into the Wi-Fi module. This cable supplies power over Ethernet, and it must be plugged in correctly or the irrigation controller can be damaged.

5. Notice that the cable coming from the bottom of the Wi-Fi module splits in two. The thin cable with the white connector is the power cable. The thicker cable is Ethernet.

6. Inspect the power cord to ensure that it is not wrapped around the Ethernet cable. If it is, unwrap it.

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7. Plug the 5-pin connector on the power cable into one of the 5-pin male power connectors on right end of the controller board.

8. Plug the end of the Ethernet cable into the Ethernet jack on the back of the controller’s faceplate.

9. Check the connectors on the antenna cable on the antenna end and the Wi-Fi module end to make sure they are tight.

10. Power up the controller.

11. Make sure the indicator lights on Wi-Fi module are illuminated.

12. Follow the instructions in the Wi-Fi Module Configuration Guide to complete the setup in the controller.

**IMPORTANT!** Make sure the antenna cable remains securely attached to the connector on the Wi-Fi module. If the module is powered up with a loose or disconnected antenna, damage may occur to the circuitry. This damage is not covered by warranty.
Troubleshooting Tips
If the Wi-Fi module is not performing as expected, you might need to try the following troubleshooting steps.

- Make sure the antenna cable is not bent or kinked in any way.

- Make sure the RJ45 connector is properly seated in the end of the Wi-Fi module. You can gently push the end of the Ethernet cable toward the Wi-Fi module to ensure that it is seated properly.

  The photo on the right shows how the connector is plugged into the Wi-Fi module inside the weatherproof cover.

- Reset the Wi-Fi module to factory settings. Perform these steps if network settings change or if you need to connect to a different network.
  1. Power down the controller.
  2. Remove the control board cover and disconnect the antenna cable from the antenna.
  3. Disconnect the Wi-Fi module power cable.
  4. Disconnect the Ethernet cable from the back of the faceplate.
  5. Remove the screws on the Wi-Fi module mounting plate.
  6. Remove the Wi-Fi module from the cabinet and unscrew the cover from the end where the Ethernet cable is plugged in. The gasket will pop out. Be sure to set it aside so you can reuse it.
  7. Reconnect the antenna cable, the power cable, and the Ethernet cable.
  8. Power on the controller.
  9. Use a pointed object to press and hold the Reset button until all the lights flash, and then release the button.
  10. Reattach the connector cover and replace the gasket.
  11. Reattach the Wi-Fi module mounting plate inside the cabinet.
  12. Replace the control board cover.
  13. Follow the instructions in the Wi-Fi Module Configuration Guide to reconfigure the Wi-Fi module.