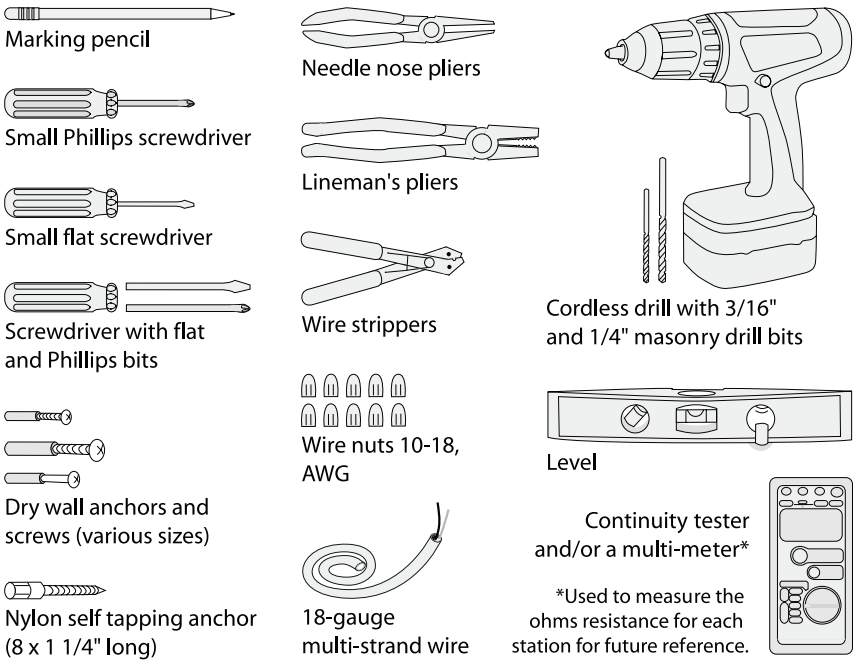


# Installation Poster 18 & 24 Station Models

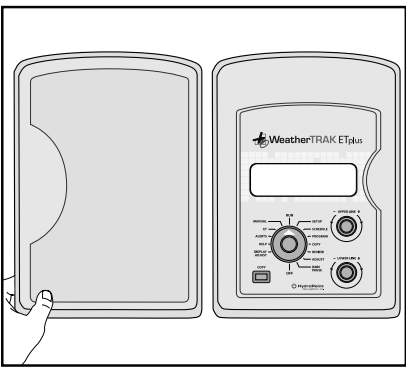
## 1 Location

- Choose a location that is easy to reach (or near existing valve wires if you have already installed a system).
- Make sure that there is a 120-Volt AC electrical source nearby or you may need to install an electrical supply at your location.
- Make sure that the vertical surface is stable and flat. You will need enough space at the bottom of the cabinet for the electrical conduit and wiring.
- Check that there is enough horizontal space beside the cabinet to allow the cabinet door to swing open to the left.
- Allow enough space above the cabinet so that you can remove the hinge pin.
- Plan to place the controller at eye level. This is important for the person who will be programming the controller.

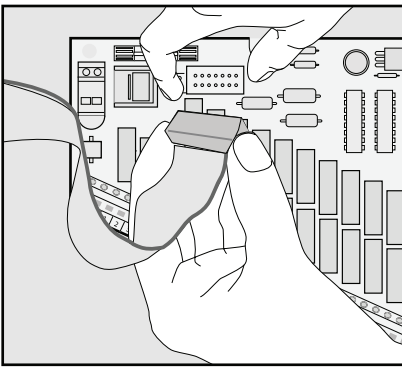
## 2 Tools and Supplies



## 3 Removing the Face Panel



Open the door and swing it to the left.

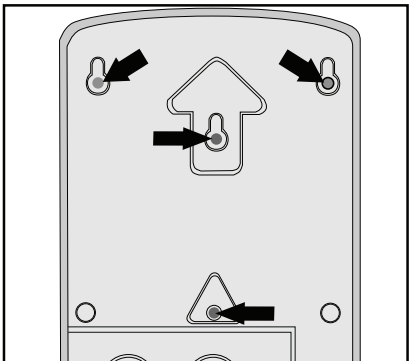


Remove the face panel by swinging it to the left or by gently pulling it down and releasing it from the hinges. Disconnect the gray ribbon cable by holding it from the top and bottom. Gently pull the cable out of its connector.

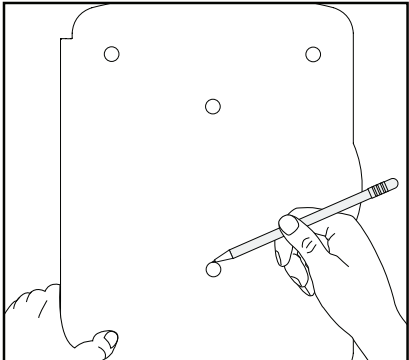
When reconnecting, confirm that the red side of the ribbon is on the right side of the connector.

## 4 Mounting the Controller

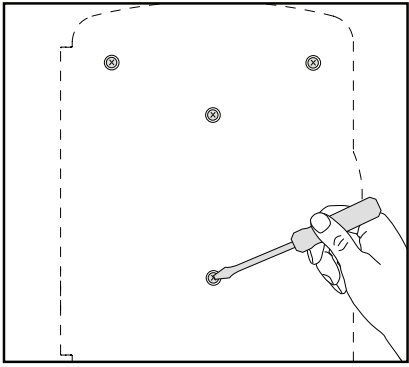
1. If you want to install the controller on a flat wall surface use the left and right slots on the top of the cabinet. To install the controller on a narrow stud, use the center slot (inside the large arrow). For all installations, use the round hole in the small triangle (at the bottom of the cabinet).



2. Using a level, hold the controller at eye level against the mounting surface. Use the supplied template to mark with a pencil the position of the holes on the mounting surface. You don't have to open the controller to mount it. Simply use the key-hole slots to slide the controller onto the mounting screws.



3. On all flat wall surfaces, drive a fastener appropriate for the type of wall into the two outside marks. For installing on narrow studs, drive a fastener appropriate for the type of wall into the middle mark. Drive the last fastener through the lower hole. Make sure that the cabinet is secure. If it is not, tighten the fasteners in the upper slots.



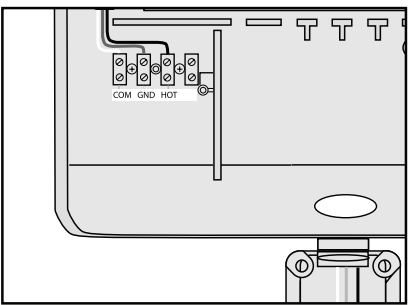
## 5 Connecting the Field Wires

### General Wiring Notes:

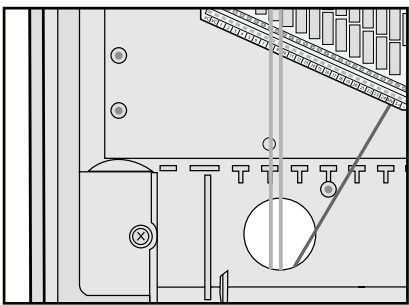
- Before you begin: Do not strip more than 1/4" of wire. This will reduce the chance of exposed wires touching each other.
- Make sure to mark the valve wires when you disconnect them from an old controller. You can use different colors of tape to mark the old wires.
- If you do not use a conduit, the wires will hang loose and can easily be bumped and accidentally disconnected. To avoid this, secure the wires together using a clamp or wire tie. Always clamp the wires 6" or less from an outlet.

### Field Wire Entrances

The WeatherTRAK ET plus controller has two 1" knockouts for routing field wires from the valves. It is likely you will only need one.



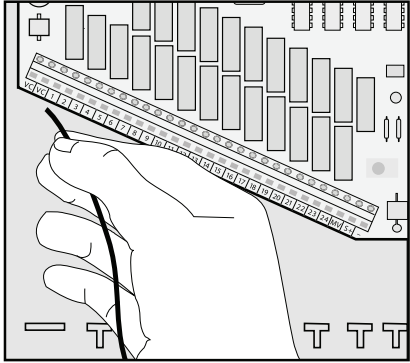
1. Underneath the cabinet, there is a hole that is sized for a 1" PVC male adapter so you can install a 1" PVC pipe or conduit for the valve wires. You can fit up to thirteen #14 gauge control wires (including the ground wire) through the 1" PVC.



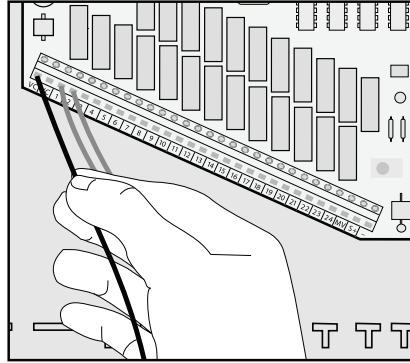
2. If you want to route the field wires through the wall where you mounted the controller, use a screwdriver to punch out the knockout for the 1" PVC adapter on the back of the controller cabinet.

# Installation Poster 18 & 24 Station Models

## 6 Wiring the Station Valve



You will connect each valve by its own separate power wire to one of the numbered terminals on the *WeatherTRAK ET plus* controller terminal strip, as shown.



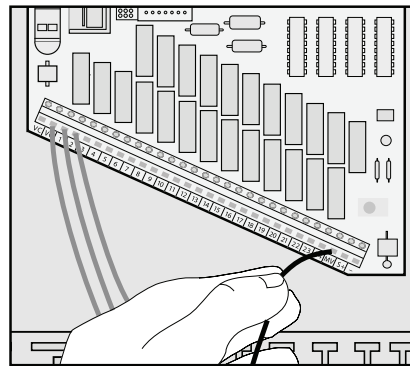
Connect the valve common wire to the VC (valve common) terminal, as shown.

You may connect up to two 24 VAC, 7VA solenoid valves per station. When wiring, there is a chamber with slots that make it easy to route the wires.

## 7 Wiring the Master Valve

*Note: Please skip this section unless your system requires a master valve or a pump relay.*

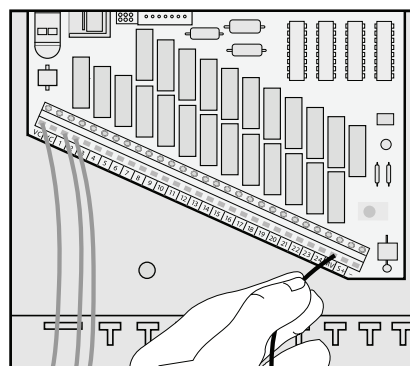
Connect the master valve wiring to the MV (master valve) terminal and VC (valve common) terminal, as shown at right and below.



## 8 Wiring the Pump Start Relay

*Note: Please skip this section unless your system requires a pump start relay. Note that the controller does not provide the main power for a pump.*

You can use the MV terminal on the controller's terminal strip to connect a pump start relay. Connect one lead of the 24 VAC pump start relay to the MV terminal and the other lead to the valve common wire.



## 9 Connecting the Main Power Wires

**WARNING: In most areas, regulations require that only licensed electrical contractors perform high-voltage electrical installation. Check applicable local codes before performing this part of the installation.**

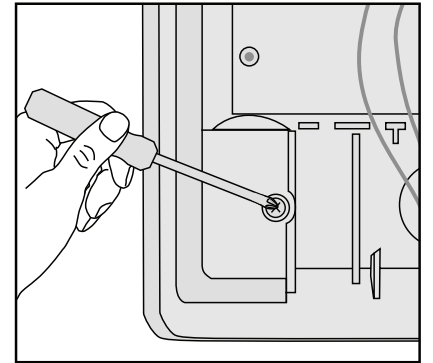
**ALTERNATE WIRING:** To connect electrical wires via wire nuts, unscrew and remove the terminal block. Select code-approved wire nuts that are compatible with the wire size you are using. Connect the wires with the wire nuts, matching black to black, white to white, and green to green.

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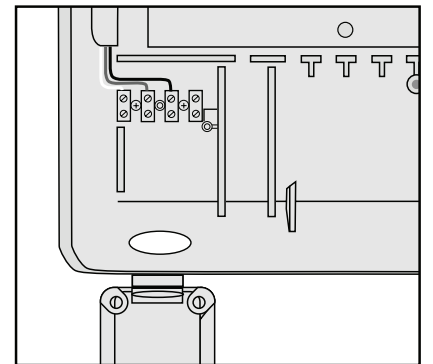
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The *WeatherTRAK ET plus* controller has an internal transformer. This transformer reduces the standard supply voltage (120 VAC models) to 24 VAC to power the valves connected to the controller. You will need to connect power supply wires to the transformer's three wires (white, black and green).

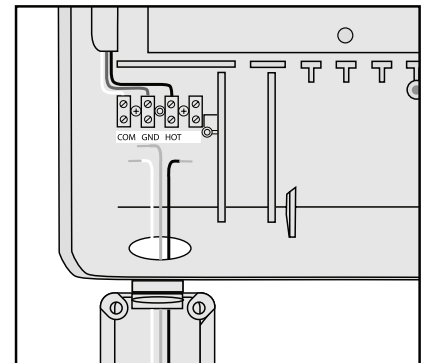
1. Remove the screw on the high voltage compartment cover inside the cabinet. Open the cover to expose the transformer's primary input wiring terminal strip.



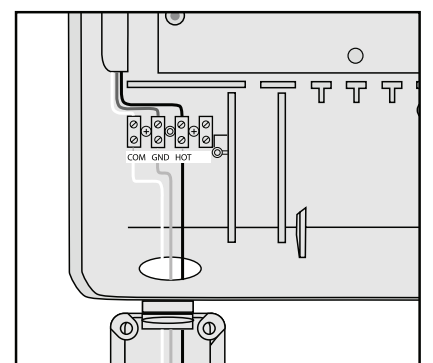
2. If you are connecting the supply wires through the bottom of the cabinet, attach a 1/2" conduit fitting to the high-voltage compartment. You can use the knock-out on the far left bottom of the controller. Then attach the conduit to the fitting.



3. Thread the three power source supply wires through the conduit into the high-voltage compartment. Strip the insulation from the wires to expose about 1/2" of bare wire.



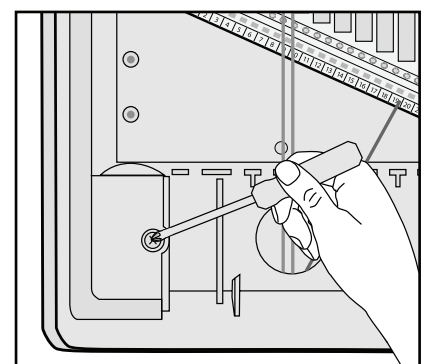
4. Connect the black supply wire ("hot") to the terminal labeled "HOT." Connect the green supply wire ("ground") to the terminal labeled "GND." Connect the white supply wire ("common") to the terminal labeled "COM."



*Installation Note:* To make installation easier, remove the terminal block by removing the two screws that fasten it to the cabinet. Do not remove the transformer wires that are connected to the terminal block.

**Important: You must connect the ground wires to protect against electrical surge.**

5. Wire connections going into the terminal block must be tightened to a torque rating of 0.5 N-m (4.4 in/lb). Close the cover of the high-voltage compartment and tighten it down with the screw.



### Getting Started with *WeatherTRAK ET plus*

1. Mount and wire the controller using this poster.
2. Conduct landscape audit and complete the included Installation and Program Settings Worksheet.
3. Enter Set Up and Program information into controller.
4. Call HydroPoint to activate your *ET Everywhere* service at (800) 362-8774.

### Tuning Your *WeatherTRAK ET plus*

Fine-tune your *WeatherTRAK ET plus* controller. One week after installation use the ADJUST feature to reduce watering on each station by 10%.

- Select ADJUST.
- Turn Upper Line to select the station.
- Turn Lower Line to the left -10%.
- Repeat for each station.
- Each week after installation (for 1-5 weeks) – Adjust each station down 10% until you see minor stress on the landscape for each station.
- When you see minor stress, Adjust station back up 5% to settle program at optimal level.