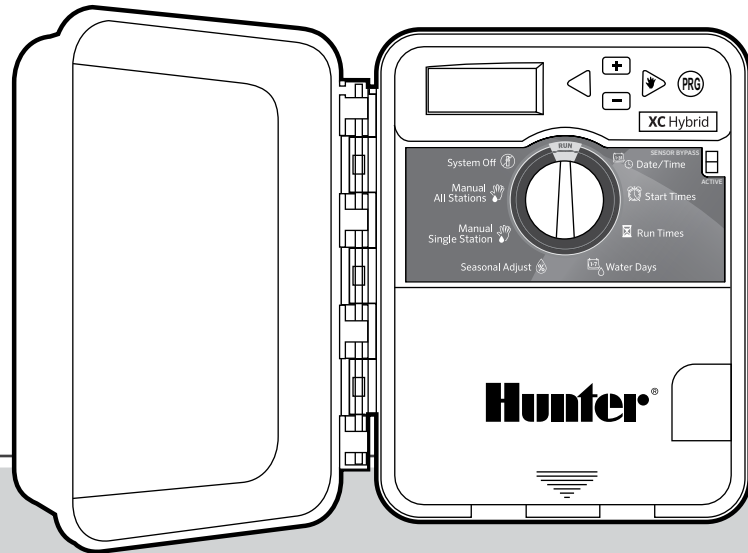
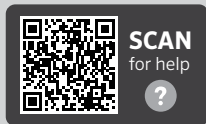


# XC Hybrid

## QUICK START GUIDE



XC Hybrid  
Irrigation Controller Programming Guide

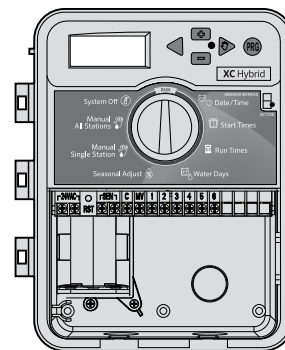


<https://hunter.help/XCHybrid>

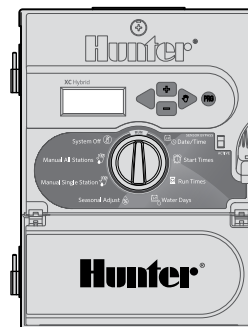
**Hunter®**

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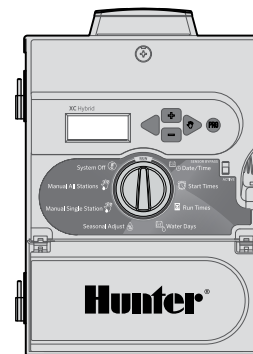
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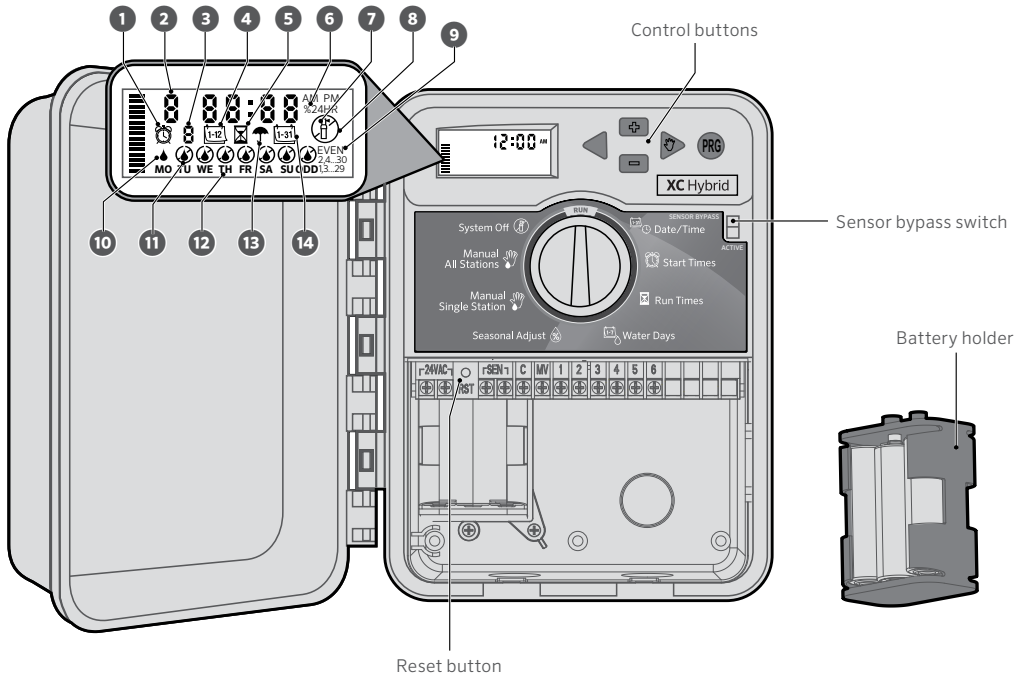
Plastic model



Stainless steel model



Stainless steel solar model

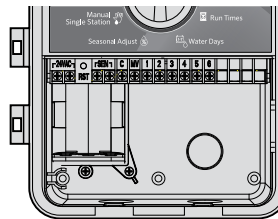


1	Start Time Symbol	5	Run Time Symbol	9	Odd/Even/Interval Days	12	Day of Week
2	Station Number	6	Seasonal Adjust (%)	10	Active Water Day	13	Rain Sensor Active/Bypass
3	Program Indicator	7	Station Running	11	Non-Active Water Day	14	Day Symbol
4	Month Symbol	8	Sprinkler Off Days				

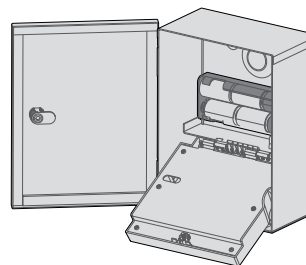
## BATTERY POWER

The XC Hybrid plastic model operates with six AA alkaline batteries, and the XC Hybrid stainless steel model uses six alkaline C batteries. A battery carrier is supplied with the controller. Insert the batteries as indicated on the battery carrier.

- To install the battery on the **XC Hybrid plastic** model, connect the battery connector inside the access compartment to the battery carrier. Then insert the carrier into the lower left side of the controller as shown.
- To access the battery carrier on the **XC Hybrid stainless steel** model, remove the screw in the top center of the controller and tilt the facepack down as shown.
- The **XC Hybrid stainless steel solar** model comes out of the box ready to install and program. Place the controller in full sunlight. Turn the dial to the **RUN** position to activate solar charging.



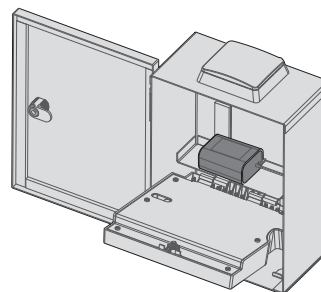
Plastic model



Stainless steel model

## XC HYBRID WIRE SIZING CHART

Wire Size	Distance from Valve to Controller
18 AWG (0.8 mm <sup>2</sup> )	550' (168 m)
16 AWG (1.3 mm <sup>2</sup> )	870' (265 m)
14 AWG (2.1 mm <sup>2</sup> )	1,380' (421 m)
12 AWG (3.3 mm <sup>2</sup> )	2,200' (671 m)



Stainless steel solar model

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## SETTING THE CURRENT DATE AND TIME

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1. Turn the dial to the **DATE/TIME** position.
2. The current year will be flashing. Use the **+** and **-** buttons to change the year. Push the **▶** button to proceed to setting the month.
3. The month will be flashing. Use the **+** and **-** buttons to change the month. Press the **▶** button to proceed to the day setting.
4. The day will be flashing. Use the **+** and **-** buttons to change the day of the month. Press the **▶** button to proceed to the time setting.
5. The time will be displayed. Use the **+** and **-** buttons to select AM, PM, or 24 HR to display all times in 24-hour mode.
6. Press the **▶** button to move to hours. Use the **+** and **-** buttons to change the hour shown on the display.
7. Press the **▶** button to move on to minutes. Use the **+** and **-** buttons to change the minutes shown in the display.
8. Turn the dial to the **RUN** position. Date and time are now set.

**IMPORTANT:** The controller dial must be in the **RUN** position to enable automatic irrigation.

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## SETTING A PROGRAM START TIME

---

1. Turn the dial to the **START TIMES** position.
2. Use the **PRG** button to select program (**A**, **B**, or **C**).
3. Use the **+** and **-** buttons to change the Start Time. The Start Time advances in 15-minute increments.
4. Press the **▶** button to add another Start Time, or **PRG** button to set a Start Time for the next program.
5. Turn the dial to the **RUN** position.

---

## ELIMINATING A PROGRAM START TIME

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1. Turn the dial to the **START TIMES** position.
2. Press the right arrow to locate the desired **START TIME**.
3. Press the **+** or **-** buttons to reach **OFF** located between 11:45 PM and 12:00 AM.
4. Press the **PRG** button to view/edit additional programs. Repeat steps 1-3 if necessary.

---



## SETTING A STATION RUN TIME

---

1. Turn the dial to the **RUN TIMES** position.
2. Use the **PRG** button to select program (**A**, **B**, or **C**).
3. Use the **+** and **-** buttons to change the station run time on the display. You can set station run times from 1 minute to 4 hours.
4. Press the **▶** button to advance to the next station.
5. Repeat for each station.

## SETTING WATER DAYS

---

1. Turn the dial to the **WATER DAYS** position.
2. The display will show the last program selected (**A**, **B**, or **C**). Switch to another program by pressing the **PRG** button.
3. The pointer at the bottom of the screen shows the currently selected day of the week. Press **+** or **-** to select days for watering  or no water .

## SELECTING ODD OR EVEN DAYS TO WATER

---

1. Press **▶** past all days of week to **ODD** or **EVEN**.
2. Press **+** to select or **-** to cancel **ODD** or **EVEN**.

## SELECTING INTERVAL WATERING

---

1. Press **▶** past **ODD** and **EVEN** to **INT**.
2. Press **+** or **-** to set interval days.
3. Press **+** or **-** to set number of days to next watering.

**NOTE:** To exit interval mode, press the **▶** or **◀** repeatedly until specific days of the week appear.

## SEASONAL ADJUST

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Changes all run times by a percentage for local conditions.

1. Turn the dial to Seasonal Adjustment.
2. Press **+** or **-** to change from 10% to 150% of original run times.

## MANUAL SINGLE STATION

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1. Turn dial to Manual Single Station position.
2. Press **▶** to select station. Use **+** or **-** to set manual run time.
3. Turn dial to **RUN** position to begin immediately.

## MANUAL PROGRAM

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1. Turn dial to **RUN** position.
2. Press and hold **▶** button for three seconds.
3. Press **PRG** to select program.
4. Release button for two seconds. Program will begin.
5. Press **▶** to advance to another station within the Program.

## ONE-TOUCH MANUAL START AND ADVANCE

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1. Hold down the right button for two seconds.
2. Press the **PRG** button to select program.
3. Press the left or right button to select a station.
4. Press the **+** or **-** button to change the run time.
5. After a two-second pause, the program will begin. At any time during manual cycle, use the left or right buttons to navigate from station to station manually.

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## TEST PROGRAM

---

Runs all stations for a test run time.

1. Press and hold **PRG** for three seconds.
2. Station 1 appears. Press **+** or **-** to enter run time.
3. Wait two seconds; each station will run for test run time.

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## SYSTEM OFF

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Turn dial to system **OFF** position. No watering will occur in this dial position.

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## PROGRAMMABLE RAIN OFF

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1. Turn dial to system **OFF** position and wait for **OFF** to stop blinking.
2. Press **+** or **-** to set the number of days to remain off.
3. Turn dial back to **RUN** position. Display will show days off remaining, and watering will resume when Off days reach 0. To cancel Rain Off, turn dial to **OFF**, wait until **OFF** stops blinking, then turn dial back to **RUN**.

---

## SENSOR BYPASS

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Overrides sensor shutdown to allow watering.

1. Move sensor **BYPASS** switch to **BYPASS** position.
2. Return switch to **ACTIVE** to allow sensor shutdown.

### SCHEDULING TIPS

- A program is a watering schedule that includes Start Time(s), Run Time(s), and Water Day(s).
- A Start Time is the time of day the Stations in the Program start watering.
- A Run Time is the watering length per Station (zone).
- One Start Time is needed to run the entire program.


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## FULL RESET

---

1. Press and hold down the **-**, **▶**, and **PRG** buttons simultaneously.
2. Press and release the **RESET** button on the **right side** of the controller.
3. When **DONE** appears on the LCD, release the **-**, **▶** and **PRG** buttons. The display should now show 12:00 AM. The memory has now been cleared and the controller may be reprogrammed.

**NOTE:** The reset button is located inside the wiring compartment.

Display	Possible Cause	Solutions
<b>DISPLAY SHOWS “ERR” WITH NUMBER</b>	Short in field wiring or bad solenoid.	Check field wiring and valve solenoid. Press any button to clear <b>ERR</b> message.
<b>DISPLAY SHOWS P “ERR”</b>	Short in P/MV wiring or solenoid.	Check wiring and solenoid at <b>Master Valve</b> . Check specifications for Pump Start Relay.
<b>DISPLAY SHOWS  WATERING BUT NO WATERING IS OCCURRING</b>	Problem in field wiring. Problem with solenoids. No water pressure to system.	Check field wiring (voltmeter). Check valve solenoid(s). Verify water source to open.
<b>FROZEN OR GARBLED DISPLAY</b>	Power surge occurred.	Reset controller.
<b>RAIN SENSOR DOES NOT STOP IRRIGATION</b>	Jumper wire is not removed. Sensor switch in <b>BYPASS</b> position.	Remove jumper wire on <b>SEN</b> terminals. Set sensor switch to Active position.
<b>CONTROLLER SEEMS TO WATER CONTINUOUSLY</b>	Too many <b>START TIMES</b> .	One Start Time operates all stations in a program. Remove unnecessary Start Times.
<b>DISPLAY SHOWS “BATT”</b>	Batteries are low.	Replace batteries.



Feature	Where Found	Description
<b>PROGRAMMABLE SENSOR OVERRIDE</b>	Hold <b>-</b> and turn to <b>START TIMES</b> .	Sets individual stations to ignore sensor shutdowns. Select stations with <b>◀</b> or <b>▶</b> , use <b>+/-</b> to change to <b>OFF</b> to ignore sensor.
<b>DELAY BETWEEN STATIONS</b>	Hold <b>-</b> and turn to <b>RUN TIMES</b> .	Inserts a delay (seconds or minutes) between stations in a run time for slow valves or recharging tanks.
<b>CLIK-DELAY</b>	Hold <b>+</b> and turn to <b>OFF</b> .	Set number of days for watering to remain off, after sensor has been activated and restored.
<b>TOTAL RUN TIME</b>	Turn to <b>RUN TIMES</b> . Press <b>◀</b> when station 1 is shown, <b>PRG</b> to select other programs.	Calculates and displays total of all run times in a program Start Time.
<b>EASY RETRIEVE®</b>	Hold <b>+</b> and <b>PRG</b> to Save. Hold <b>-</b> and <b>PRG</b> to Restore.	Saves all program information to restore at a later time.
<b>TOTAL RESET</b>	Hold <b>PRG</b> and press <b>RESET</b> button.	Returns to factory defaults and erases watering schedule and settings.
<b>QUICKCHECK™</b>	<b>+</b> , <b>-</b> , <b>◀</b> , <b>▶</b> together, then <b>+</b> .	Checks all stations for wiring problems.

## INSTALLING THE TRANSFORMER (OPTIONAL)

The XC Hybrid is designed to operate on batteries or a permanent plug-in transformer, if AC power is available. A 24 VAC output plug-in transformer can be attached to the two 24 VAC terminals inside the lower access area.

**NOTE:** This does not change the DC voltage output from the station terminals. Existing DC solenoids should remain installed.

## TRANSFORMER MODELS

VOLTAGE IN/OUT	VERSION	PART NUMBER
120/24 VAC	U.S.	526500
230/24 VAC	European	545700
240/24 VAC	Australian	545500

# Compliance Information

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by taking one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Hunter Industries could void the user's authority to operate this device. If necessary, consult a representative of Hunter Industries, or an experienced radio/television technician for additional suggestions.

The following statement is applicable when irrigation controller is used with accessory Wi-Fi device: To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 7.9" (20 cm) or more should be maintained between the antenna of this device and persons during operation.

To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



## Certificate of Conformity to European Directives

Hunter Industries declares that the irrigation controller complies with the standards of the European Directives of "electromagnetic compatibility" (2014/30/EU), "low voltage" (2014/35/EU), and "radio equipment" (2014/53/EU).

## Innovation, Science and Economic Development Canada (ISED) Compliance Notice

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s).

Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.