308-146 FAQS

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CONTENTS

Batteries

- ✓ Half of all warranty issues can be resolved with fresh batteries of the appropriate voltage.
- ✓ We suggest name brand alkaline batteries for indoor displays such as Weather Stations.
- ✓ Use batteries dated at least six years in advance of the current year. Batteries dated earlier than six years from now may still work, but may be unstable in performance.
- ✓ Alkaline batteries manufactured this year will have an expiration date 10 years in the future. Battery technology has improved and batteries will maintain voltage longer in storage. However, the environment the batteries reside in for the 10 years can deplete the power.
- ✓ Good name brand batteries make less noise, which reduces the chance of RF (radio frequency) interference from the battery compartment. A minimum voltage of 1.48V for each battery is necessary for proper performance.

A/C Power

- ✓ The design of this Weather Station is to use a/c power (5-volt) as primary power source. When operating with the a/c power cord the backlight can be on continually.
- ✓ When operating on a/c power, batteries are optional and not required in the Weather Station.
- ✓ The backlight will turn off or operate at high or low intensity at your discretion.
- ✓ **IMPORTANT**: When operating on a/c power, to avoid interference, the backlight and USB charging port will turn off while the Weather Station searches for the WWVB signal. The

backlight will return after the 2-10 minute search (which occurs during the late night or early morning hours). Then the USB charging port will resume working.

Weather Station Factory Restart

FACTORY RESTART:

- ✓ DISTANCE: Bring the transmitter and Weather Station together inside and place both 5-10 feet apart with nothing between them.
- ✓ REMOVE POWER: Remove batteries and a/c cord from transmitter and Weather Station.
- ✓ DISCHARGE ELECTRICITY: Press one of the buttons on the Weather Station at least 20 times to clear all memory. Verify that the Weather Station is blank before proceeding.
- ✓ UNPOWERED 10 MINUTES: Let the Weather Station and transmitter sit with power removed for at least 10 minutes.
- ✓ WEATHER STATION: Insert 5-volt A/C power cord or install fresh alkaline batteries in the Weather Station.
- ✓ TRANSMITTER: Insert fresh batteries into the transmitter, observing the correct polarity.
- ✓ PRESS TX BUTTON: Press the TX button on the back of remote Transmitter to transmit RF (radio frequency) signal. Keep the transmitter 5-10 feet from the Weather Station.
- ✓ WAIT: Wait for 5 minutes for the outdoor temperature/humidity to appear.
- ✓ CONNECTION: When RF (radio frequency) connection is established, the respective temperature & humidity will appear on the main unit. Allow the transmitter and Weather Station to sit together for 15 minutes to establish a strong connection.
- ✓ PLACE TRANSMITTER OUTSIDE: For optimum 433MHz transmission, place the outdoor transmitter a distance of no more than 200 feet (60 meters, open air) from the Weather Station.
- ✓ See the section on mounting and distance/resistance/interference for details on mounting the outdoor transmitter.

Outdoor Temperature/Humidity Transmitter

Compatible Outdoor Transmitters

- ✓ A TX142TH outdoor transmitter comes packaged with this Weather Station.
- ✓ The TX142TH, TX14TH, TX14TH-LCD-G and TX14TH-LCD-B (433MHz) transmitters are compatible with this Weather Station.

Quick Connect

- ✓ DISTANCE: Bring the transmitter and Weather Station together inside and have both units 5-10 feet apart with nothing between them.
- ✓ WEATHER STATION: Hold the CH button on the Weather Station for 5 seconds until the temperature/humidity area starts to flash.
- ✓ TRANSMITTER: Remove battery cover and press and release the TX button to send the signal.
- ✓ WAIT: Wait for 2 minutes for the outdoor temperature/humidity to appear.
- ✓ Factory Restart: If the above procedure does not work, please try the factory reset below.

Power requirements

- ✓ 2-AA batteries power the outdoor transmitter.
- ✓ We recommend alkaline batteries for the transmitter.
- ✓ You may choose to use lithium batteries for temperatures below - 20°F/-28.8°C.

Dashes shown for Outdoor Temperature/Humidity

- ✓ Dashes means the connection is lost between the Weather Station and the outdoor transmitter.
- ✓ Batteries often resolve the connection.
- ✓ Distance/Resistance can cause loss of connection between the transmitter and the Weather Station.
- ✓ Reorientation of the Weather Station 90 degrees towards the outdoor transmitter may provide better reception. This allows more antenna surface to face the transmitter signal.
- ✓ Try the quick connect or factory restart.

Outdoor Temperature/Humidity changes constantly

- ✓ The Weather Station can read up to three outdoor transmitters.
- ✓ Check the channel indicator. If it switches between 1, 2 or 3, your Weather Station is reading additional transmitters.
- ✓ The word AUTO will appear below the channel indicator when the Weather Station is set to channel scroll.
- ✓ Press and release the CH button to settle on one channel.
- ✓ **Note**: When first powered up it is natural for the Weather Station to search across all three channels for up to 15 minutes for outdoor transmitters.
- ✓ You may have an additional compatible outdoor transmitter within range.
- ✓ Occasionally a neighbor will have a compatible outdoor transmitter that is within range.

Inaccurate Outdoor Temperature/Humidity reading

- ✓ The outdoor transmitter reads the environment. When mounted in the home it will read inside temperature/humidity.
- ✓ When the transmitter reads high during the day but not at night it is a positioning problem.
- ✓ **Side-by-side test:** Bring the outdoor transmitter in the house and place it next to the Weather Station for 2 hours.
- ✓ Compare indoor and outdoor temperature. The temperatures should be within 4 degrees to be within tolerance. The humidity should be within 10% to be within tolerance. See the section on accuracy for details.
- ✓ If the transmitter reads correctly when next to the Weather Station then try a different location outside.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat.

Intermittent Outdoor Temperature/Humidity

- ✓ RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister climates). If transmitter signal is lost, please wait 2-4 hours for the signal to reconnect on its own.
- ✓ Move the outdoor transmitter to a closer location.
- ✓ **Check Channels**: Confirm that the channel selected on the outdoor transmitter matches the channel shown on the Weather Station.
- ✓ **Freezer test**: Confirm the Weather Station is reading the correct outdoor transmitter. Place the transmitter in the freezer for an hour and watch the temperature drop on the Weather Station.
- ✓ **Indoor distance test:** Please complete the Restart with transmitter and Weather Station 5-10 feet apart and inside to establish a strong connection.
- ✓ After 15 minutes if there is a reading in the outdoor temperature area, move the transmitter to another room with one wall between the transmitter and the Weather Station. Observe to see if the temperature/humidity remains on consistently for 1-hour.

- ✓ If the temperature/humidity remains on while in the house then it is likely a distance/resistance issue. Move the transmitter to different locations outside to find a location where the temperature/humidity reading will hold.
- ✓ Distance/Resistance can cause loss of transmitter signal.
- ✓ Check Batteries.

Outdoor Temperature/Humidity is stuck or OFL

- ✓ The last outdoor reading may remain (not change) for several hours when connection is lost.
- ✓ The outdoor temperature/humidity reading will flash when the connection is first lost or intermittent between the Weather Station and the outdoor transmitter.
- ✓ Check Batteries. Overpowered or underpowered batteries can cause this reading.
- ✓ Replace outdoor transmitter.

Outdoor transmitter fell and no longer works

- ✓ If there is no physical damage to the outdoor transmitter, the fall may not have caused internal damage.
- ✓ An outdoor transmitter that has fallen into a puddle or other standing water or snow may have water damage.
- ✓ Transmitters are water resistant, not waterproof.
- ✓ A fall can shock the transmitter or the batteries in the transmitter. Batteries that have fallen on a hard surface may be damaged and unable to function properly.
- ✓ Complete a Restart with fresh batteries.
- ✓ Use Batteries dated at least six years in advance of the current year. Batteries dated earlier than six years from now may still work, but may be unstable in performance.

Outdoor Transmitter drains batteries quickly

- ✓ Test a new set of alkaline batteries. Write down the date of installation and the voltage of the batteries.
- ✓ When the batteries fail, please note the date and voltage again.
- ✓ Check the distance and resistance between the transmitter and Weather Station. Transmitters at the end of the range may work while batteries are fresh but not after they drain a bit.
- ✓ Check for leaking batteries, which may damage the transmitter.
- ✓ Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries.

MIN/MAX Temperature readings

- ✓ This Weather Station will show the daily minimum and maximum temperatures starting at midnight (12:00 AM).
- ✓ The Weather Station will automatically reset the min/max temperatures at midnight (12:00 AM).
- ✓ You can manually reset the MIN/MAX data at any time.

VIEW MIN/MAX:

- ✓ MAX: From a normal display press and release the MIN/MAX button once to view maximum temperature and humidity values for indoor and outdoor data. The word MAX will appear next to the indoor and outdoor temperature.

- ✓ MIN: From a normal display press and release the MIN/MAX button once to view minimum temperature and humidity values for indoor or outdoor data. The word MIN will appear next to the indoor and outdoor temperature.

MANUAL RESET MIN/MAX: Hold the MIN/MAX button for 5 seconds to reset all indoor and outdoor minimum and maximum values.

TIP: When using multiple transmitters, use the CH button to view MIN or MAX temperature on the other channels.

Heat Index/Dew Point temperature

HEAT INDEX:
Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being. As humidity increases, the body is unable to cool effectively. The temperature will feel warmer.

VIEW HEAT INDEX: From a normal display, press the HEAT/DEW button once and Heat Index will show instead of the indoor and outdoor ambient temperature.
Note: Heat index will be the same number as the temperature until the temperature is above 80 degrees ° F (26.7° C)

DEW POINT:
Dew point is the saturation point of the air, or the temperature to which the air has to cool in order to create condensation. The higher the dew points, the higher the moisture content of the air at a given temperature.

VIEW DEW POINT TEMPERATURE: From a normal display, press the HEAT/DEW button twice and Dew Point will show instead of the indoor and outdoor ambient temperature. The words Dew Point will show near the indoor and outdoor temperatures.
Note: Dew Point is lower than the actual temperature.
TIP: When using multiple transmitters, use the CH button to view heat index or dew point temperature on the other channels.

Channels

The Weather Station will accommodate up to three remote outdoor transmitters. The channel selection (CH) button on the Weather Station allows you to see the temperature in various locations: outdoors, baby's room, greenhouse, basement, etc.

- ✓ Press and release the CH button to view channel 1, 2 or 3 on the display when multiple transmitters are used.

Note: You cannot change channels if only one transmitter is connected.

CHANNEL SCROLL- Press and release the CH button until you see the word AUTO appear in the outdoor data area. The display will automatically rotate through the channels for all connected transmitters.

- ✓ Press and release the CH button to lock the display into one channel.
- ✓ Then view channels individually with a press of the CH button.

Multiple Outdoor Transmitters

To connect multiple remote transmitters to the Weather Station:

- ✓ Remove the battery cover from all the transmitters (leave off for setup).
- ✓ Set the **first** outdoor transmitter to channel 1 and insert 2-AA batteries.
- ✓ Set the **second** outdoor transmitter to channel 2 and insert 2-AA batteries.
- ✓ Set the **third** outdoor transmitter to channel 3 and insert 2-AA batteries.

- ✓ Press and hold CH button on Weather Station until a beep sounds.
- ✓ The Weather Station will search for all outdoor transmitters.
- ✓ Press the TX button on the back of each outdoor transmitter to transmit RF (radio frequency) signal.
- ✓ When RF (radio frequency) connection is established, the respective temperature & humidity of the selected channels will appear on the main unit.
- ✓ Allow the transmitters and the Weather Station to stay 5-10 feet apart for 15 minutes to establish a solid connection.
- ✓ Install the battery covers on each sensor.
- ✓ After 15 minutes, place the remote transmitters in appropriate locations within range of the display.
- ✓ Press and release the CH button to view channel 1, 2 or 3 on the display when multiple transmitters are used.

Mounting/Positioning Outdoor Transmitter

- ✓ Mount outdoor temperature/humidity transmitters vertically and under a bit of an overhang.
- ✓ Protect the outdoor transmitter from standing rain or snow, and from the overhead sun, which can cause it to read incorrectly. Mounting under an eave or deck rail works well.
- ✓ Construct a small roof or box for the transmitter if you do not have an overhang. Please be sure it is well vented.
- ✓ Mount the transmitter on the North side to prevent sun from causing incorrect readings.
- ✓ Mount at least 6 feet in the air for a strong RF (radio frequency) signal.
- ✓ Outdoor transmitters are water resistant but not water proof.
- ✓ Avoid more than 1 wall between the transmitter and the Weather Station.
- ✓ Do not mount near electrical wires, transmitting antennas or other items that will interfere with the signal.
- ✓ RF (radio frequency) signals do not travel well through moisture or dirt.
- ✓ Place the outdoor transmitter and the Weather Station in the desired shaded locations, and wait approximately 1-hour before permanently mounting the transmitter to ensure that there is proper reception.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.

MOUNT

- ✓ Choose a location for the transmitter that is within range of the Weather Station and under an overhang for accuracy.
- ✓ Install one mounting screw into a wall leaving approximately ½ inch (12.7mm) extended.
- ✓ Place the transmitter onto the screw, using the hanging hole on the backside.
- ✓ Gently pull the transmitter down to lock the screw into place.

Note: Always ensure that the transmitter locks onto the screw before releasing.

Position Weather Station

- ✓ The Weather Station has a wide base to sit on a desk or table.
- ✓ Place within range of the outdoor transmitter.

- ✓ Choose a location 6 feet or more from electronics such as cordless phones, wireless gaming systems, televisions, microwaves, routers, baby monitors, etc., which can prevent signal reception.
- ✓ Be aware of electrical wires and plumbing within a wall. This will interfere with RF (radio frequency) signal reception.
- ✓ The maximum transmitting range in open air is 200-feet (60 meters).

- ✓ Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- ✓ For best WWVB reception, orientate the Weather Station with the front of the back facing Ft. Collins Colorado.

Distance/Resistance/Interference

Distance:

- ✓ The maximum transmitting range in open air is over 200-feet (60 meters) between the outdoor transmitter and the Weather Station.
- ✓ This range is in open air with ideal conditions.
- ✓ Consider what is in the signal path between the Weather Station and the transmitter.
- ✓ Consider the distance the Weather Station is located away from other electronic in the home.

Resistance:

- ✓ Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
- ✓ When considering the distance between the transmitter and the Weather Station (200 feet open air) cut that distance in half for each wall, window, tree, bush or other obstruction in the signal path.
- ✓ Closer is better.
- ✓ Windows reflect the RF (radio frequency) signal.
- ✓ Metal absorbs the signal and reduces the range.
- ✓ Stucco is often attached to the wall with a metal mesh that absorbs the signal.
- ✓ Do not mount the transmitter on a metal fence. This significantly reduces the effective range.

Interference:

- ✓ Consider items in the signal path between the transmitter and the Weather Station.
- ✓ Sometime a simple relocation of the transmitter or the Weather Station will correct the interference issue.
- ✓ Windows can reflect the radio signal.
- ✓ Metal will absorb the RF (radio frequency) signal.
- ✓ Stucco is backed by a metal mesh that holds it to the wall.
- ✓ Transmitting antennas (ham radio, emergency dispatch center, airports, military base etc.)
- ✓ Electrical wires (utilities, cable etc.)
- ✓ Vegetation is full of moisture and reduces signal.
- ✓ Dirt: Trying to receive a signal through a hill is difficult.

Accuracy

Indoor Temperature

- ✓ Operating temperature range = 32 F to 122 F (0C to 50C)
- ✓ Accuracy ± 2 degrees Fahrenheit 32 F to 122 F (0C to 50C)
- ✓ Resolution = 0.1 degree F

Indoor Humidity

- ✓ Operating Temperature Range = 32F to 120F (0C to 50C)
- ✓ Operating humidity range = 1% RH to 99%
- ✓ Accuracy +/- 5% RH (@77oF (25oC) , 30%RH to 80%RH)
- ✓ Accuracy +/- 8% RH (@77oF (25oC) , 20%RH to29%RH & 80%RH to 95%RH)

- ✓ Accuracy +/-12% RH (@77oF (25oC) , 1%RH to 19%RH & 96%RH to 99%RH)
- ✓ Resolution = 1 % RH

Outdoor Temperature

- ✓ Operating temperature range = -40 F to 140F (-40C to 60C)
- ✓ Accuracy ± 2 degrees Fahrenheit 32 F to 122 F (0C to 50C)
- ✓ Accuracy ± 4 degrees Fahrenheit -40 F to32 F (-40C to 0C) & 122 F to140 F (50C to 60C)

Outdoor Humidity

- ✓ Operating humidity range = 1% RH to 99%
- ✓ Accuracy +/- 5% RH (@77oF (25oC) , 20%RH to 90%RH)
- ✓ Accuracy +/- 8% RH (@77oF (25oC) , 20%RH to 30%RH & 80%RH to 95%RH)
- ✓ Accuracy +/-12% RH (@77oF (25oC) , 1%RH to 19%RH & 96%RH to 99%RH)
- ✓ Resolution = 1 % RH

Barometric Pressure

- ✓ Measure range= 800mb to 1100mb 23.62 inHg to 32.48 inHg
- ✓ Resolution= 1mb
- ✓ Measuring time interval: every 12 minutes

Weather Station

How tall are the time numbers

The time numbers are 0.79 inches tall.

Power requirements

- ✓ This Weather Station is powered by a 5 volt a/c power adapter
- ✓ Alternatively, optional 3-AA alkaline batteries may be used.

Supported times zones

This Weather Station offers seven time zones:

- ✓ AST=Atlantic
- ✓ EST= Eastern
- ✓ CST= Central
- ✓ MST= Mountain
- ✓ PST= Pacific
- ✓ AKT= Alaska
- ✓ HAT=Hawaiian

The Weather Station is designed to work in North America.

12-Hour or 24-Hour time format

- ✓ Display the time in 12-hour or 24-hour format.
- ✓ Default is 12-hour time.
- ✓ Use the Program Menu to switch time formats.

Fahrenheit/Celsius

- ✓ **Weather Station**: Press and release the -/°C/°F button on the back of the Weather Station to switch the temperature display from Fahrenheit to Celsius.

Backlight goes out

- ✓ The backlight will automatically go dark when the Weather Station is searching for a WWVB time signal.
- ✓ The backlight will return after the 2-10 minute search.
- ✓ The WWVB signal search will occur when the Weather Station during setup and automatically during the late night or early morning hours.
- ✓ Press and release the LIGHT HI/LO button to be sure the backlight was not on dim.
- ✓ Hold the LIGHT HI/LO button to be sure the backlight was not off.
- ✓ Check that the a/c cord is correctly inserted into the Weather Station and outlet. The backlight will not show constantly on battery power.

Backlight

A/C adapter:
The backlight can show continuously when operating the Weather Station with the 5-volt a/c adapter.

- ✓ **HIGH**: The backlight is defaulted to HI (brightness) when the a/c adapter is in use.
- ✓ **LO**: Press and release the LIGHT HI/LO button to dim the brightness of the backlight.
- ✓ Press and release the LIGHT HI/LO button again to return to full strength (HIGH).

Note: When the Adapter is NOT in use, the High/Low backlight feature is not available.

- ✓ **OFF**: Hold the HOLD ON/OFF button for 5 seconds, until the station beeps, to turn the backlight off to sleep.
- ✓ **ON**: Hold the HOLD ON/OFF button again until the station beeps, to turn the backlight on. The backlight will come on at the same level (high or low) as it was set to when turned off.

Note: When the backlight is off, press any button to activate the backlight for 8 seconds, and then it will turn off again.

Battery power:
Press and release the SNOOZE/LIGHT button and the backlight will show for 8 seconds, when operating on batteries only.

IMPORTANT: When operating on a/c power, the backlight and USB charging port will turn off while the Weather Station searches for the WWVB signal, to avoid interference. The backlight will return after the 2-10 minute search (which occurs during the late night or early morning hours). Then the USB charging port will resume working.

Dashes, OFL or stuck indoor Temperature/Humidity

- ✓ This is generally a power related issue.
- ✓ Check that the a/c cord is correctly inserted into the Weather Station and outlet. If using batteries in the Weather Station as well, remove them and see if the Weather Station goes blank, indicating a faulty a/c cord.
- ✓ Batteries may be overpowered or underpowered. Remove batteries and a/c cord from Weather Station.

- ✓ Press any button 20 times. Leave the Weather Station unpowered for 1-2 hours.
- ✓ Insert a/c power cord into an outlet then into the Weather Station.
- ✓ Alternatively, install fresh alkaline batteries with correct polarity.
- ✓ If the indoor temperature/humidity is still dashes or OFL, the Weather Station may need to be replaced.

Inaccurate indoor Temperature/Humidity reading

- ✓ **Side-by-side test**: Bring the outdoor transmitter in the house and place it next to the Weather Station for 2 hours.
- ✓ Compare indoor and outdoor temperature/humidity. The temperature should be within 4 degrees to be within tolerance. The humidity should be within 10% to be within tolerance. See the section on accuracy for details.
- ✓ Look for heat sources such as sunlight, door or window frames, or reflected heat of cold.

Set time alarm

- ✓ ALARM HOUR: Press and hold the ALARM button to enter alarm time setting mode. The Alarm Hour will flash. Use the +/RCC or -/°F/°C button to set the Hour. Press and release the ALARM button.
- ✓ ALARM MINUTE: The Alarm Minutes will flash. Use the +/RCC or -/°F/°C button to set the Minutes. Press and release the ALARM button to exit.

Activate/Deactivate time alarm

ACTIVATE:
- ✓ From the time mode, press and release the ALARM button once to show Alarm Time.
- ✓ With the Alarm time showing, press and release the ALARM button to activate the alarm.
- ✓ The alarm icon (bell) appears when alarm is activated.

DEACTIVATE:
- ✓ From the time mode ,press and release the ALARM button once to show Alarm Time.
- ✓ With the Alarm time showing, press and release the ALARM button to deactivate the alarm.
- ✓ The alarm icon will disappear when alarm deactivates.

Snooze Alarm

- ✓ When the alarm sounds, press the SNOOZE button to trigger snooze alarm for 9 minutes.
- ✓ The snooze icon Zz will flash when the snooze feature is active.
- ✓ To stop alarm for one day, press AL button, while in snooze mode.
- ✓ The alarm icon (bell) will remain solid.

Time is off by hours

- ✓ Check to see if the WWVB Tower icon appears on the Weather Station. If not, the Weather Station has not received a WWVB time signal in the past 24-hours.
- ✓ Reposition the Weather Station with the front or back facing Colorado.
- ✓ Check that the Time Zone selected correctly reflects your location. Adjust the time zone in the Program Menu.
- ✓ Check that the DST indicator is correct for your location (most areas observe DST so this should be ON). Adjust the DST indicator in the Program Menu.

Forecast icons inaccurate

THIS WEATHER STATION LEARNS FORECAST OVER TIME!

✓ Please allow 3-4 weeks for barometer calibration to generate an accurate forecast.

IMPORTANT: As the Weather Station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the Weather Station operates in one location the more accurate the forecast icons will be.

Weather Forecast Icons: This Weather Station has 5 forecast icons that predict the weather condition of the next 12-hours based on the change of atmospheric pressure.

- ✓ Sunny
- ✓ Partly Cloudy
- ✓ Cloudy
- ✓ Rainy
- ✓ Stormy

The icons forecast the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates.

The weather forecast is about 70-75% correct. As weather conditions cannot be 100% correctly forecasted we are not be responsible for any loss caused by an incorrect forecast.

Manually Set Time/Date: Program Menu

PROGRAM MENU: The SET button will move through the program menu.
The +/RCC or -/°C/°F button will change the value.

- ✓ WWVB ON/OFF: Hold the SET button 5 seconds and **WWVB** and the word **ON** will flash. Press and release the +/RCC or -/°C/°F button to turn this to OFF if you do not wish WWVB reception. Confirm with the SET button and move to the next item.

- ✓ TIME ZONE: **EST** will flash. Press and release the +/RCC or -/°C/°F button to select a different Time Zone:
  - AST=Atlantic
  - EST= Eastern
  - CST= Central
  - MST= Mountain
  - PST= Pacific
  - AKT= Alaska
  - HAT=Hawaiian
- ✓ Confirm with the SET button and move to the next item.

- ✓ DAYLIGHT SAVING TIME: **DST** will flash and the word **ON**. Press and release the +/RCC or -/°C/°F button to turn this to OFF if you do not observe DST. Confirm with the SET button and move to the next item.

- ✓ 12/24 HOUR TIME: **12H** will flash. Press and release the +/RCC or -/°C/°F button to select 24H. Confirm with the SET button and move to the next item.

- ✓ HOUR: The **hour** will flash. Press and release the +/RCC or -/°C/°F button to select the correct hour. Confirm with the SET button and move to the next item.

- ✓ MINUTES: The **minutes** will flash. Press and release the +/RCC or -/°C/°F button to select the correct minutes. Confirm with the SET button and move to the next item.

- ✓ YEAR: The **year** will flash. Press and release the +/RCC or -/°C/°F button to select the correct year. Confirm with the SET button and move to the next item.

- ✓ MONTH: The **month** will flash. Press and release the +/RCC or -/°C/°F button to select the correct month. Confirm with the SET button and move to the next item.

- ✓ DATE: The **date** will flash. Press and release the +/RCC or -/°C/°F button to select the correct date. Confirm with the SET button and exit the program menu
- ✓ Note: The Day of the Week will set automatically once the year, month and date are set.

FAHRENHEIT/CELSIUS: Press and release the -/°C/°F button once to switch from Celsius to Fahrenheit temperature display.

No WWVB tower icon

- ✓ The Weather Station has not received a WWVB time signal in the past 24-hours.
- ✓ Position the Weather Station for better reception.
- ✓ Be sure you have good batteries in the Weather Station or that the a/c cord is properly attached.
- ✓ Hold the +/RCC button to send the Weather Station on a signal search at night.
- ✓ Allow up to 5 nights to receive the time signal.

IMPORTANT:
When operating on a/c power, the backlight and USB charging port will turn off while the Weather Station searches for the WWVB signal, to avoid interference. The backlight will return after the 2-10 minute search (which occurs during the late night or early morning hours). Then the USB charging port will resume working.

USB charge port

- ✓ The Weather Station has an integrated USB charging port (on back) that will charge devices when the Weather Station is plugged into a power outlet.
  Note: This is a power output (charging) port only. This port will not supply power to the Weather Station.
- ✓ You cannot use a USB cord from the Weather Station to your computer and operate the Weather Station.
- ✓ **Note**: There is not a USB cord included with the Weather Station.
- ✓ **Connect your existing USB charging cord for your external device** to the USB charging port on the back of the Weather Station to begin to charge. Charging times will vary.
- ✓ **Note**: Check to be sure that your device will charge with the USB cord it came with. Many USB cords are for data transfer only, and cannot be used for charging.

- ✓ Output: 1A maximum current USB
  Do NOT overload USB port
- ✓ **Note**: Charging times will vary based on battery depletion and the individual device.
- ✓ **Note**: Many devices may require more power to charge than provided by this Weather Station.

IMPORTANT: When operating on a/c power, the backlight and USB charging port will turn off while the Weather Station searches for the WWVB signal, to avoid interference. The backlight will return after the 2-10 minute search (which occurs during the late night or early morning hours). Then the USB charging port will resume working.

Weather Station has missing segments

- ✓ This is generally a power related issue.
- ✓ Batteries may be overpowered or underpowered. Remove batteries and a/c cord from Weather Station.
- ✓ Press any button 20 times. Leave the Weather Station unpowered for 1-2 hours.
- ✓ Insert the a/c cord into the outlet first then into the Weather Station.
- ✓ Alternatively, install fresh alkaline batteries with correct polarity.

Weather Station is dim

Battery Operation:

- ✓ Most Weather Stations have a gray background. Place the Weather Station at eye level. Is it still dim?
- ✓ Weather Stations that sit in the sunlight can develop a cloudy film over time.
- ✓ This is generally a power related issue.
- ✓ Batteries may be overpowered or underpowered. Remove batteries from Weather Station.
- ✓ Press any button 20 times. Leave the Weather Station unpowered for 1-2 hours.
- ✓ Install fresh alkaline batteries with correct polarity.

A/C Power Operation:

- ✓ Check that the a/c cord is correctly inserted into the Weather Station and outlet.
- ✓ If using batteries in the Weather Station as well, remove them and see if the Weather Station goes blank, indicating a faulty a/c cord.
- ✓ Check the backlight intensity setting. The backlight can be on high, low or off.

Weather Station has distorted display

- ✓ On a brand new Weather Station check for thin plastic films of printed scratch guard that may be on the upper and lower screen of the Weather Station. This thin piece of plastic has printed numbers for store displays.
- ✓ With all power removed the Weather Station should be blank.
- ✓ If numbers still appear, please check for scratch guard.
- ✓ Check that the batteries and a/c cord are installed correctly.
- ✓ This is generally a power related issue.
- ✓ Batteries may be overpowered or underpowered.
- ✓ Remove batteries and a/c cord from Weather Station.
- ✓ Press any button 20 times. Leave the batteries and a/c cord out of the display for 2 hours.
- ✓ Insert a/c power cord into a good outlet first, then into the Weather Station.

Weather Station display is frozen

- ✓ On a brand new Weather Station check for thin plastic films of printed scratch guard that may be on the upper and lower screen of the Weather Station. This thin piece of plastic has printed numbers for store displays. This can make the Weather Station display appear “frozen”.
- ✓ With all power removed the Weather Station should be blank.
- ✓ If numbers still appear, please check for scratch guard.
- ✓ Check that the batteries and a/c cord are installed correctly.
- ✓ This is generally a power related issue.
- ✓ Batteries may be overpowered or underpowered.
- ✓ Remove batteries and a/c cord from Weather Station.
- ✓ Press any button 20 times. Leave the batteries and a/c cord out of the display for 2 hours.
- ✓ Insert a/c power cord into a good outlet first, then into the Weather Station.

Weather Station is blank: No letters, numbers or dashed lines

- ✓ Check that the batteries and a/c cord are installed correctly.
- ✓ Batteries may be overpowered or underpowered.
- ✓ Remove batteries and a/c cord from Weather Station.
- ✓ Press any button 20 times. Leave the batteries and a/c cord out of the display for 2 hours.
- ✓ Insert a/c power cord into a good outlet first, then into the Weather Station.

Weather Station drains batteries quickly

- ✓ Test a new set of alkaline batteries. Write down the date of installation and the voltage of the batteries.
- ✓ When the batteries fail, please note the date and voltage again. This is helpful in determining the problem.
- ✓ Check for leaking batteries, which may damage the Weather Station.
- ✓ Battery life is over 12 months when using reputable battery brands.
- ✓ Try a/c power cord instead of batteries to power Weather Station.