



SkyTech RC-110V-PROG Remote Control Thermostat User Manual

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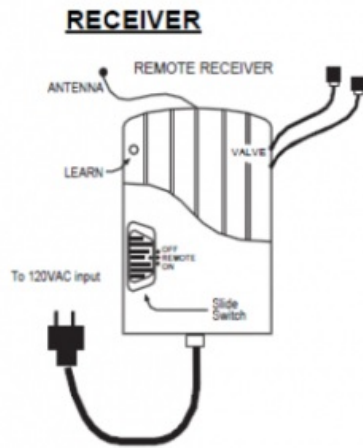
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RC-110V-PROG Remote Control Thermostat INSTRUCTION MANUAL

IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS DO NOT ATTEMPT TO INSTALL OR OPERATE

This remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas

heating appliances or other compatible appliances. The system can be operated manually from the transmitter.



The receiver wires must be connected to the thermostat leads on your appliance.

Refer to your appliance manual for proper wiring instructions.

The transmitter operates on 4 AAA 1.5V batteries

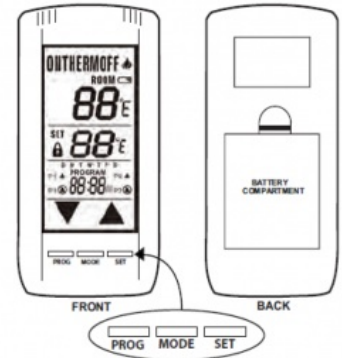
that are included. Install the batteries supplied with the unit into the battery compartment. It is recommended that ALKALINE batteries always be used for this product. Be sure the batteries are installed with the (+) and (-) ends facing the correct direction.

When you start up the remote, if a low battery signal appears or if the LCD screen does not illuminate when you touch it, check battery position and if the batteries are fully charged.

TRANSMITTER BUTTONS

1. **[MODE]** – Switches the appliance on/thermo/off.
2. **[PROG]** – Turns on and off the program function.
3. **[SET]** – Used in different functions to confirm settings.

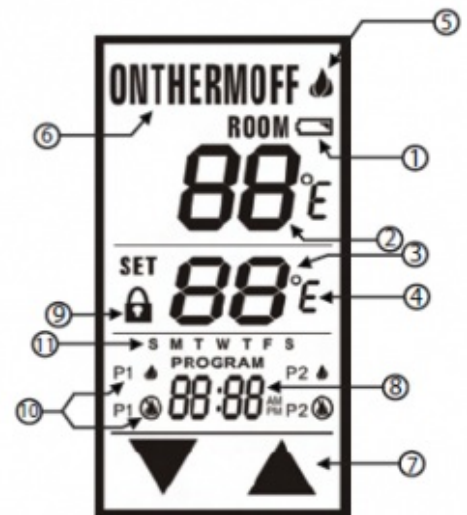
TRANSMITTER



1. **BATTERY ICON** – Battery power is low. See SETUP STEP 2.
2. **ROOM** – Indicates CURRENT room temperature.
3. **SET** – Indicates desired SET room temperature for THERMO operation. See

PROGRAM STEP 1.

4. **FAHRENHEIT/CELSIUS** – Indicates Fahrenheit/Celsius. See SETUP STEP 5.
5. **FLAME** - Indicates appliance is ON.
6. **MODE** – Indicates operation mode of system. See SETUP STEP 6.
7. **UP and DOWN touchscreen icons** – These are used to adjust the Time, Set temperature, and Program functions.
8. **TIME and PROGRAM TIME** – Indicates current time or program time setting when editing program settings.
9. **LOCK** – Child lock out. See SETUP STEP 3.
10. **PROGRAM ON/OFF** – Indicates when Program 1 (P1) is on or off, and indicates when Program 2 (P2) is on or off. See PROGRAM STEP 4.
11. **DAY of WEEK** – Indicates current day of week, or program segment when editing program settings.



INITIAL SETUP

SETUP STEP 1: RECEIVER BOX SETUP.

- Follow wiring instructions to connect the RECEIVER to your appliance.
- Plug the receiver into a powered electrical outlet.
- If required, set your appliance to be responsive to the thermostat (using settings such as AUTO/OFF or HI/LO – NOT “Manual”). Note: some appliances only operate by thermostat.
- Slide the ON/OFF/REMOTE slide button to ON and verify that the appliance has turned on. If not, check the wiring and verify that the appliance is plugged into an electrical out (if required).
- Slide the ON/OFF/REMOTE slide button to OFF. Your appliance will turn off and/or indicate that it has received a thermostat shutdown signal. (Note: Pellet stove operation varies, the stove may remain on for some period of time before shutting down).
- Slide the ON/OFF/REMOTE slide button to REMOTE

SETUP STEP 2: Install the batteries into the handheld Transmitter. Install 4 “AAA” batteries in the handheld Transmitter. Be sure the batteries are installed with the (+) and (-) ends facing the correct direction. When you start up the remote, if a low battery signal appears or if the LCD screen does not illuminate when you touch it, check battery position and that the batteries are fully charged.

SETUP STEP 3: Check that you are not in Child “LOCK-OUT” mode (CP)
This remote control includes a CHILDPROOF “LOCK-OUT” feature that allows the user to “LOCKOUT” operation of the appliance from the handheld Transmitter. To activate the “LOCK-OUT” feature, simultaneously press and hold the UP icon on the touchscreen and the [SET] button for 5 seconds. The Lock icon will appear on the LCD screen.

To disengage the “LOCK-OUT”, simultaneously press and hold the UP icon on the touchscreen and the [SET] button until the Lock icon disappears from the LCD screen. This will return the transmitter to normal operation.

When the Transmitter is in “LOCK-OUT” mode, programmed functions will continue without interruption; only manual functions are prevented.

SETUP STEP 4: Synchronize the Receiver to the handheld Transmitter.
To synchronize the security codes between the transmitter and the receiver:

- Slide the ON/OFF/REMOTE slide switch to the REMOTE position.
- Slide one end of a paper clip into the small hole below the word “LEARN” to reach the Learn button inside the receiver box.
- Using the paper clip, press and release the LEARN button inside the box – you will hear a BEEP.
- Within 5 seconds, press the [MODE] button on the transmitter, and you will hear several short beeps which indicate that the transmitter's code has been programmed into the receiver.

SETUP STEP 5: Set oF / oC Scale

The factory setting for temperature is °F. To toggle between °F and °C, simultaneously press and hold the UP and DOWN icons on the touchscreen. NOTE: When changing between the °F and °C scales, the set temperature defaults to

the lowest temperature (45 °F, or 6 °C).

SETUP STEP 6: System Check Each click of the [MODE] button will toggle the remote control through the 3 operation modes: ON, OFF, and THERMO.

To toggle to the ON mode, click the [MODE] button on the transmitter. If THERMON, THERMOFF or OFF is displayed at

the top of the LCD screen, click the [MODE] button 1 – 2 more times until the word ON appears in the top left corner of

the display. The appliance should turn on. If the appliance does not turn on, go back to SETUP STEP 1.

SETUP STEP 7: Set the current date and time.

- Press and hold the [SET] button for 5 seconds. The hour section will begin to flash.
- Use the UP & DOWN icons on the touchscreen to select the hour, then press the [SET] button.
- The minutes will flash. Use the UP & DOWN icons on the touchscreen to select the minute, then press the [SET] button.
- AM PM will flash. Use the UP & DOWN icons on the touchscreen to select AM or PM, then press the [SET] button.
- One of the days of the week will flash (above the clock). Select the correct day by pressing the UP & DOWN icons on the touchscreen then press the [SET] button. Your time will automatically be accepted.

Understanding the Communication Safety Shutoff Function / What to do if the receiver beeps

This remote control has a COMMUNICATION –SAFETY function built into its software. It provides an extra margin of

safety when the Transmitter is out of the normal 20 foot operating range of the receiver. At all times and in all OPERATING MODES, in addition to the THERMOFF or THERMON signal that is sent every 2 minutes, the transmitter sends an RF signal every 15 minutes to the receiver indicating that the transmitter is within the normal

operating range of 20 feet. Should the receiver NOT receive a transmitter signal every 15 minutes, the receiver will begin a 2 hour (120 minute) countdown timing function. If during this 2-hour period, the receiver does not receive a

signal from the transmitter, the receiver will shut down the appliance being controlled by the receiver. The receiver will then emit a series of rapid “beeps” for a period of 10 seconds. Then after 10 seconds of rapid beeping, the receiver will continue to emit a single “beep” every 4 seconds until a transmitter [MODE] button is pressed to reset the receiver.

Understanding the Thermo-Safety Feature

PROTECTION FROM EXTREME HEAT IS VERY IMPORTANT. Like any piece of electronic equipment, the remote receiver should be kept away from temperatures exceeding 1300F. Exposure to extreme temperatures can damage the electronic components or cause the plastic case to become deformed and is not covered under warranty. A receiver located in an area, where the ambient temperature inside the case exceeds 1300F, will cause THERMO-SAFETY feature to activate and sound warning beeps. To reset the receiver and stop the warning beeps, reposition the receiver away from the heat.

PROGRAMMING SETUP

PROGRAM STEP 1: Set THERMO mode to your desired cool temperature (for example, 67o)

- Press the [MODE] button to place the transmitter into THERM mode,
- Press the UP or DOWN icons on the touchscreen to select the target temperature you want for cooler periods of the day (for example, 67o).

The transmitter will send either a THERMON or THERMOFF signal to the appliance every 2 minutes, based on the set temperature and the ambient temperature in the room. The temperature swing differential will determine at what temperature the room needs to drop down to before the thermostat will send a THERMON signal. For example, if the swing is 2o, the room will drop to 65o before the thermostat will call for heat when the THERMO mode is set to 67o.

Note: The highest set temperature is 99 °F.



PROGRAM STEP 2: Setting the Temperature Swing Differential

The THERMO Mode on the transmitter operates the appliance whenever the room temperature varies a certain number of degrees from the set temperature. This variation is called the “SWING” or TEMPERATURE DIFFERENTIAL. The factory preset swing temperature is 2oF. To change the “Swing Setting:”

- Simultaneously press the [SET] button and the DOWN icon on the touchscreen to display the current “swing” setting in the set temp frame. The letter “S” will display in the room temp frame on the LCD screen.
- Press the UP or DOWN icon on the touchscreen to adjust the “SWING” temperature (1o-3o F).
- Press the [SET] button to store the “swing” setting.

PROGRAM STEP 3: Plan your programs

Example Programs:

WEEKENDS (S S) On the weekends, I like it to be warm all day and cooler at night.

Program 1 ON at 5:00 AM until OFF at Noon (12:00 PM) set Warm Target Temp: 72o

Program 1 ON & OFF Times must be between midnight (12:00 AM) and noon (12:00 PM)

Program 2 ON at Noon (12:00 PM) until OFF at 11:00 PM set Warm Target Temp to 72o

Program 2 ON & OFF Times must be between noon (12:00 PM) and midnight (12:00 AM)

At 11:00 PM, the target temp will drop to the cool temperature set in PROGRAM STEP 1.

WEEKDAYS (M T W T F) On weekdays, I like it to be warm in the morning, cooler when I am at work, warmer when I

come home, then cooler at night. This is the factory preset program for weekdays:

Program 1 ON at 5:00 AM until OFF at 9:00 AM set Warm Target Temp: 72o

At 9:00 AM, the target temp will drop to the cool temperature set in PROGRAM STEP 1.

Program 2 ON at 4:00 PM until OFF at 10:00 PM set Warm target Temp: 72o

At 10:00 PM, the target temp will drop to the cool temperature set in PROGRAM STEP 1.

Plan your program using this worksheet:

Thermostat (Cool) Target Temperature: _____

WEEKENDS:

Program 1: (ON) Warmer at __:____ (OFF) Cooler at __:____ Warm Target Temp: ____o

Program 1 ON & OFF Times must be between midnight (12:00 AM) and noon (12:00 PM)

Program 2: (ON) Warmer at __:____ (OFF) Cooler at __:____ Warm Target Temp: ____o

Program 2 ON & OFF Times must be between noon (12:00 PM) and midnight (12:00 AM)

WEEKDAYS:

Program 1: (ON) Warmer at __:____ (OFF) Cooler at __:____ Warm Target Temp: ____°

Program 1 ON & OFF Times must be between midnight (12:00 AM) and noon (12:00 PM)

Program 2: (ON) Warmer at __:____ (OFF) Cooler at __:____ Warm Target Temp: ____°

Program 2 ON & OFF Times must be between noon (12:00 PM) and midnight (12:00 AM)

PROGRAM STEP 3: Enter your programs

NOTE: Programming mode STARTS with the Weekend segment.

- Press the PROG button and hold for 5 seconds, until the program section of the LCD screen begins to flash. P1 ON and "S S" (Weekend Segment) will flash (See Fig. #1).
- Select the time you want your appliance to turn up to the P1 target temperature by using the UP and DOWN icons on the touchscreen, then press the [SET] button.



Fig. #1

P1 OFF will flash (See Fig. #2).

- Select the time you want your appliance to turn down to the cooler temperature you set STEP 2, then press the [SET] button.



Fig. #2

The set temperature will flash (See Fig. #3).

- Use the UP and DOWN icons on the touchscreen to select the P1 target temperature, then press the [SET] button



Fig. #3

P2 ON will flash (See Fig. #4).

- Select the time you want your appliance to turn up to the P2 target temperature by pressing the UP and DOWN icons on the touchscreen, then press the [SET] button.



Fig. #4

P2 OFF will flash (See Fig. #5).

- Select the P2 OFF time for your appliance to turn down to your cooler temperature. Then press the [SET] button.



Fig. #5

The set temperature will begin to flash.

- Use the UP and DOWN icons on the touchscreen to select the P2 target temperature, then press the [SET] button.

“M T W T F” (Weekday Segment) will replace “S S”. P1 ON will flash.

- Repeat the above steps to set the ON and OFF times and set temperatures for weekdays. (See Fig. #6)



Fig. #6

PROGRAM STEP 4: Activate the program.

1 => Press the [MODE] button to enter THERM Mode (screen will display THERMON or THERMOFF, depending on your cool target temperature and current room temperature.

2=> Press the [PROG] button and the word PROGRAM will appear in the lower display along with P1 or P2, depending

on the current time of day.

To override the program, press the [MODE] button to put the remote in manual ON mode. When the user turns the remote back to THERM mode, the remote will resume regular program mode (the word PROGRAM will appear above the display time).

To turn the program function off, press the [PROG] button. The word PROGRAM will disappear from the LCD screen.

WARNING

THIS REMOTE CONTROL SYSTEM MUST BE INSTALLED EXACTLY AS OUTLINED IN THESE INSTRUCTIONS. READ ALL INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING INSTALLATION. FOLLOW INSTRUCTIONS CAREFULLY DURING INSTALLATION. ANY MODIFICATION OF THIS REMOTE CONTROL OR ANY OF ITS COMPONENTS WILL VOID THE WARRANTY AND MAY POSE A FIRE HAZARD.

GENERAL INFORMATION

MATCHING SECURITY CODES

Each transmitter can use one of 1,048,576 unique security codes. It may be necessary to program the remote receiver to

LEARN the security code of the transmitter upon initial use, if batteries are replaced, or if a replacement transmitter is

purchased from your dealer or the factory. Refer to STEP 4.

The microprocessor that controls the security code matching procedure is controlled by a timing function. If you are

unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again – this delay allows

the microprocessor to reset its timer circuitry – and try up to two or three more times.

THERMO FUNCTION

When the transmitter is in the THERMO mode, it should be kept away from direct sources of heat such as fireplaces,

incandescent lighting, and direct sunlight. Leaving the transmitter in direct sunlight, for example, will cause its heatsensing

diode to read the room temperature higher than it actually is; if in THERMO mode, it may not turn on the appliance even if the ambient ROOM temperature is below the SET temperature.

BATTERY LIFE

Life expectancy of alkaline batteries in the remote should be at least 12 months. Check and replace all batteries annually. When the Transmitter no longer operates the receiver from a distance it did previously (i.e., the transmitter's

range has decreased) or the remote receiver does not function at all, the transmitter batteries should be checked. The

Transmitter should operate with as little as 5.0 volts of battery power, measuring at the (4) 1.5-volt batteries.

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