INST12003000
03-20-2026

Powr Sonic

Item No.
12003100
12003200
12003300

PORTER®

Installation and Operation Manual

SAVE THESE INSTRUCTIONS FOR FUTURE USE

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SAFETY INSTRUCTIONS

Read all instructions before use to avoid injury.

If you have more than one transmitter for your facility, only use one at a time to operate equipment.

Improper use of product can result in serious injury.

Read all product safety labels.

All electrical work shall be performed by a licensed electrician in accordance with the state and local codes and ordinances.

Keep this instruction manual for future reference.

⚠WARNING

NEVER operate unit with individuals standing on the floor, in bleachers, etc. in the area of the unit being operated.

Operator must stand within full view of the unit(s) being operated.

Should any unusual noise or sudden movement of the unit develop during the up or down cycles, halt operation immediately until unit is checked by a trained technician, and the problem has been corrected.

Cordless controller must always be in the possession of a responsible, trained adult aware of the possible structural damage or injuries that may occur as the result of improper operation or malfunction.

⚠ **WARNING**: Cancer and Reproductive Harm –
For more information go to www.p65warnings.ca.gov

PARTS LISTS

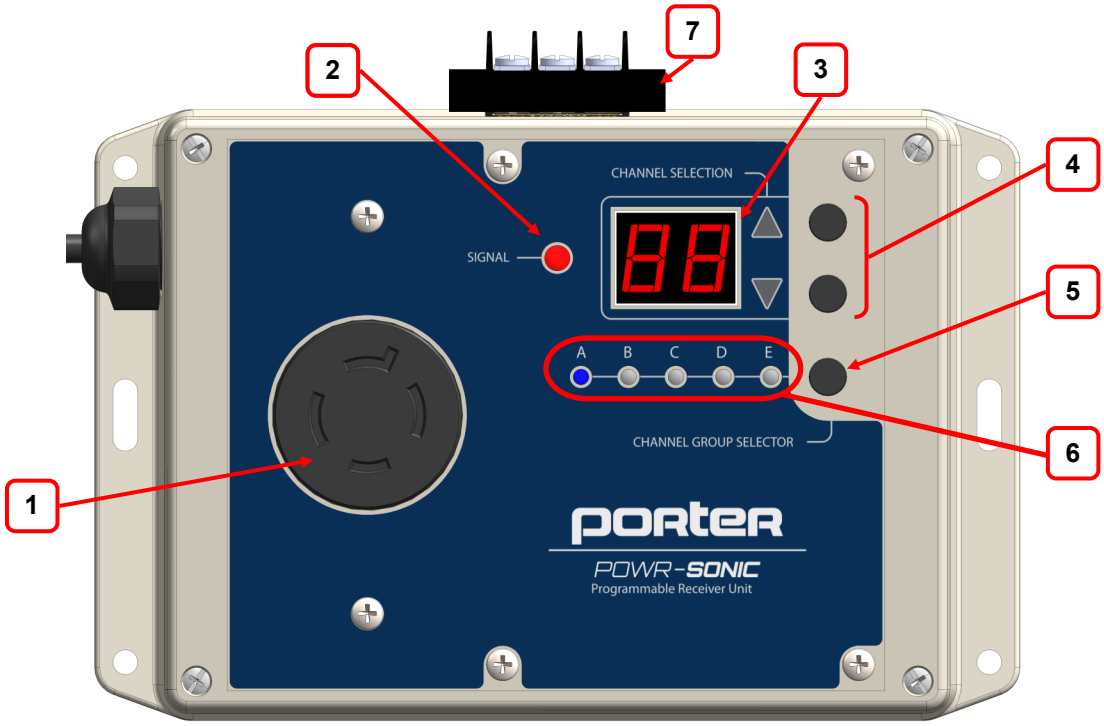
Powr Sonic Receiver Kit

ITEM NO.	12003200 QTY.	12003250 QTY.	PART NUMBER	DESCRIPTION
1	1	1	XELC12003200	POWR SONIC RECEIVER
2	2	2	ELEC00367	CABLE TIE MOUNT; SCREW-IN TWO WAY
3	2	2	HDWE061610E0	#10-24 X 5/8" PHILLIPS HEAD SCREW
4	2	2	HDWE050130E0	FLAT WASHER; #10; 1/4" ID X 1/2" OD; ZINC
5	2	2	HDWE030580E0	NYLOCK HEX NUT THIN- #10-24
6	2	2	ELEC00221002	CABLE TIE - 14 IN LG. (BLACK)
7	1	1	ELEC00064000	3-WIRE TWIST-LOCK RECEPTACLE: NEMA L5-15R
8	1	1	ELEC001260G0	1/2" DEEP SURFACE COVER
9	-	1	ELEC00086000	KEY SWITCH ASSEMBLY 1-SWITCH 2 GANG

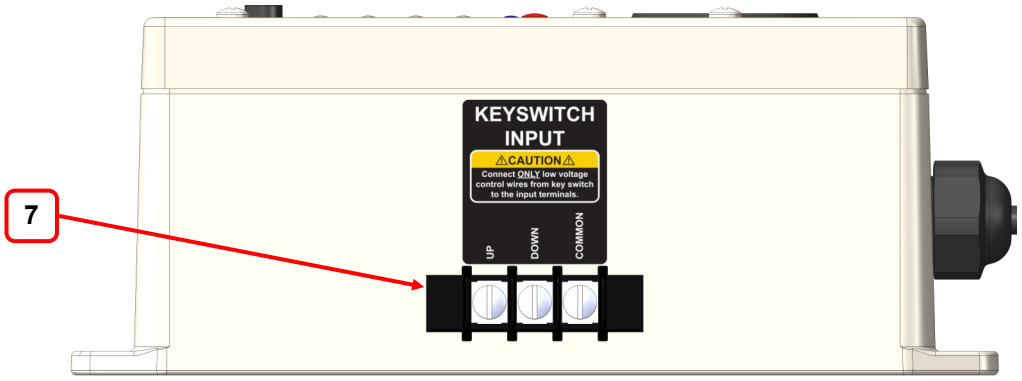
Powr Sonic Receiver Kit For 2085 Curtain

ITEM NO.	12003300 QTY.	12003350 QTY.	PART NUMBER	DESCRIPTION
1	1	1	XELC12003300	POWR SONIC RECEIVER (FOR 2085 CURTAIN)
2	2	2	ELEC00367	CABLE TIE MOUNT; SCREW-IN TWO WAY
3	2	2	HDWE061610E0	#10-24 X 5/8" PHILLIPS HEAD SCREW
4	2	2	HDWE050130E0	FLAT WASHER; #10; 1/4" ID X 1/2" OD; ZINC
5	2	2	HDWE030580E0	NYLOCK HEX NUT THIN- #10-24
6	2	2	ELEC00221002	CABLE TIE - 14 IN LG. (BLACK)
7	1	1	ELEC00064000	3-WIRE TWIST-LOCK RECEPTACLE: NEMA L5-15R
8	1	1	ELEC001260G0	1/2" DEEP SURFACE COVER
9	1	1	ELEC00209000	LOCKING CONNECTOR L14-20
10	-	1	ELEC00086000	KEY SWITCH ASSEMBLY 1-SWITCH 2 GANG

XELC12003200 RECEIVER INTERFACE



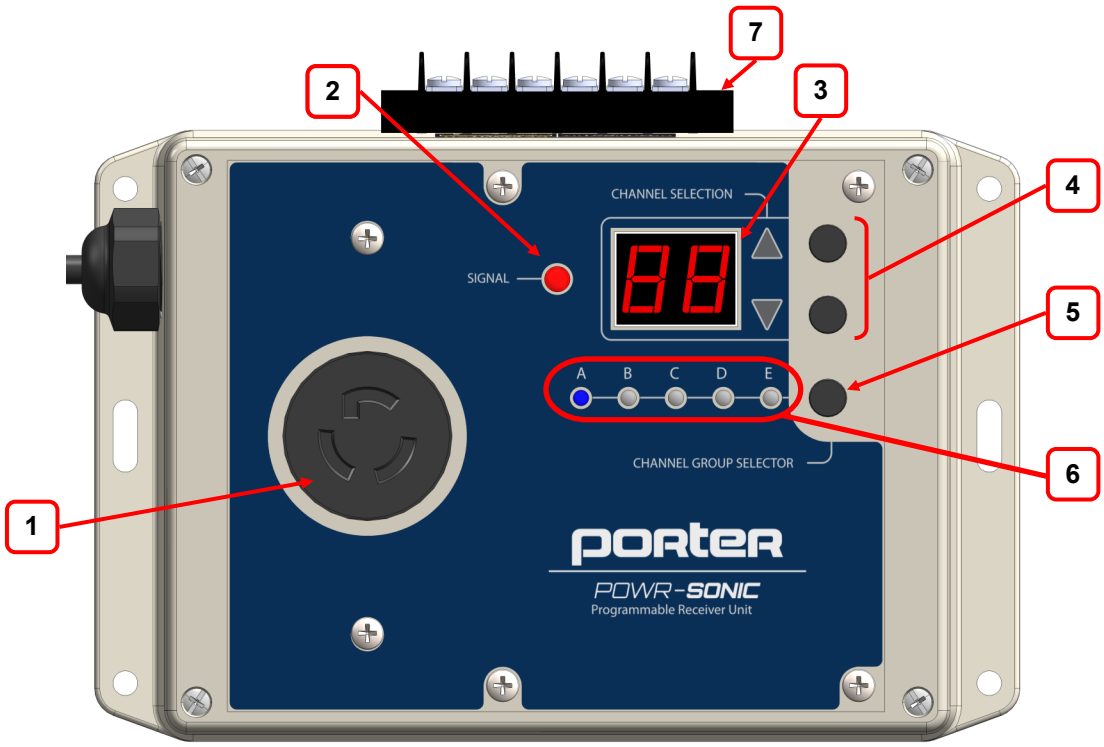
XELC12003200 RECEIVER



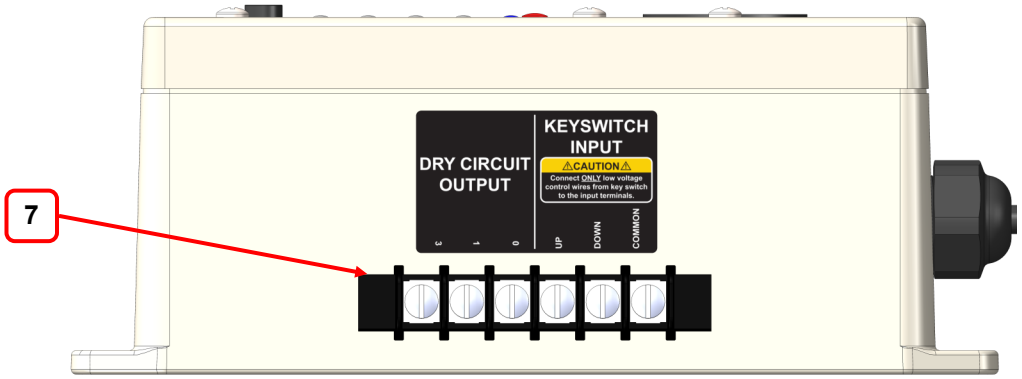
XELC12003200
TERMINAL STRIP FOR KEY SWITCH INPUT

1. L14-20 receptacle to power equipment
2. The SIGNAL LED illuminates when receiving a signal from the transmitter
3. Channel display
4. Channel UP and DOWN buttons—Press to change channel; press and hold to quick-scroll
5. Channel group selector—Press to cycle through A-E
6. Channel group LED indicator
7. Terminal strip for key switch input

XELC12003300 RECEIVER INTERFACE



XELC12003300 RECEIVER



XELC12003300
TERMINAL STRIP FOR KEY SWITCH INPUT AND 2085 SYNCHRONIZER CONTROL

1. L15-15 receptacle to power equipment
2. The SIGNAL LED illuminates when receiving a signal from the transmitter
3. Channel display
4. Channel UP and DOWN buttons—Press to change channel; press and hold to quick-scroll
5. Channel group selector—Press to cycle through A-E
6. Channel group LED indicator
7. Terminal strip for key switch input and 2085 synchronizer control

INSTALLATION INSTRUCTIONS

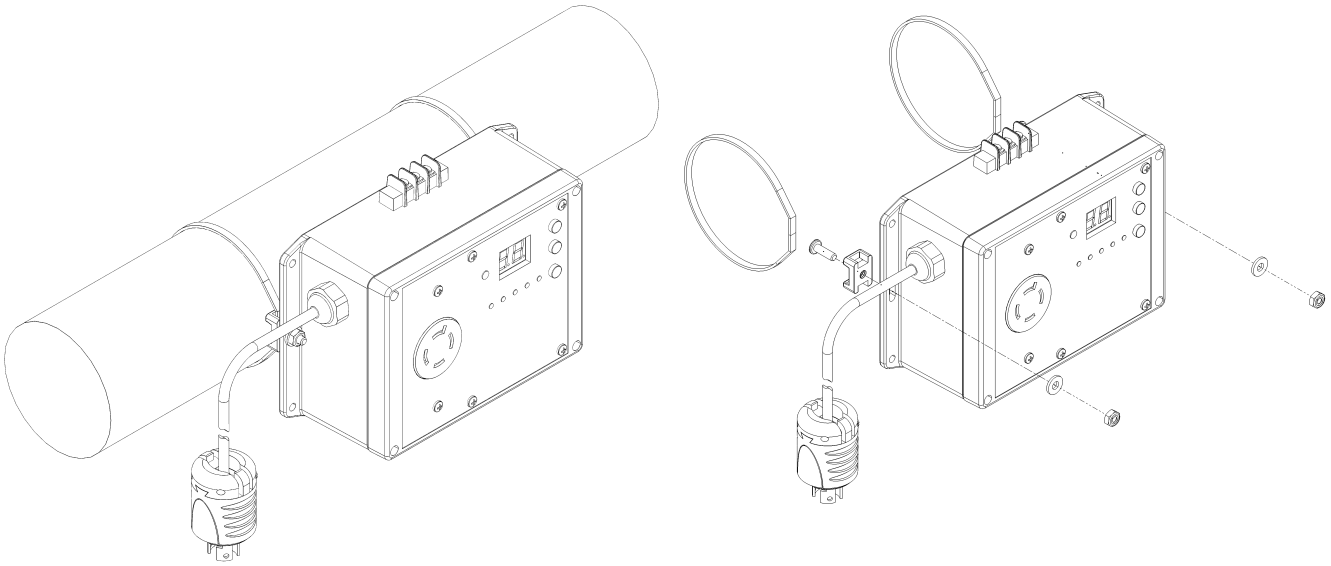
1. Establish backstop or divider curtain operating code numbers and any group operation code numbers (1 thru 99). Use numbers on floor plan drawing if available – Main court #1 and 2, Cross Courts #3, 4, 5, 6, etc. Suggest marking backstops with operating numbers to avoid confusion.

2. We recommend setting the receiver channels before installing them at the devices they will control. An L5-15R to 5-15P adapter cord can be useful to power receivers temporarily for initial setup. Set the receiving code on each receiver using the channel up and down buttons. **NOTE THAT CHANNELS ARE NOT PERMANENTLY SAVED TO THE RECEIVER UNTIL THE LED CHANNEL INDICATOR HAS TURNED OFF BY ITSELF. THIS TAKES ABOUT TEN SECONDS. IF POWER IS DISCONNECTED BEFORE THIS HAS HAPPENED, THE CHANNELS WILL HAVE TO BE RE -CONFIGURED.** If you are setting group operation(**limit 12 devices per group**), use the channel group selector button to cycle through slots A to E and assign each channel accordingly (see page 9 for example channel configuration). As each box is set, write the unique operating identification number on the outside of the box.

L5-15R to 5-15P adapter cord

NOTE: DO NOT OPEN THE RECEIVER ASSEMBLY. THERE ARE NO INTERNAL DIP SWITCHES IN THIS MODEL. DOING SO COULD VOID THE WARRANTY.

3. Install each control receiver on the corresponding numbered backstop or gymnasium divider support structure as shown on installation print, within 3'-0" of the electric winch that it is to control. Use the cable ties provided to attach enclosure mounting strap to 3-1/2" O.D. superstructure pipe as shown below. #10 screws (not provided) may be used to attach to wood or other type framing structures if necessary. After receiver is mounted, double-check that the control box number corresponds to the number marked on the equipment (1 to 1, 2 to 2, etc.).



TYPICAL 3 1/2” O.D.
SUPERSTRUCTURE ATTACHMENT

INSTALLATION INSTRUCTIONS

4. Plug 4-prong twist-lock plug from electric winch into control receiver box. Plug 3-prong twist-lock power cord from the control receiver box into the power source (115 volt, single phase, 60 cycle), using the 3-prong twist-lock receptacle (2) and 1/2" deep cover plate provided.

5. With the basketball backstop or gymnasium divider curtain in the down position, test the operation of the unit with the No. 12003100 portable transmitter control unit (see pages 12-16 for operation instructions).

⚠WARNING

Moving parts can crush and cut. Always keep hands away from the V-belts and pulleys when operating unit.

NOTICE

Group operation should not be used until all units have their limits set individually.

   A. Select the equipment to operate from the equipment lists or using the numerical keypad.

   B. Press and hold the ▲ MOVE EQUIPMENT button. The SIGNAL LED on the receiver (see pages 5-6) at the selected device should illuminate and the device should begin the up cycle.

   C. Set rotary counting limit switches per winch installation instructions

   D. Repeat steps A through C for all units.

6. All units must be tested through a complete up/down cycle before leaving the jobsite, to ensure proper operation with the portable transmitter control unit AND limit switch settings.

7. If the transmitter does not activate one or more of the winch units, double-check the channel settings on the receiver.

8. If the receiver is in the proximity of a metal beam or other obstruction, it may be necessary to relocate the receiver to increase the operating range.

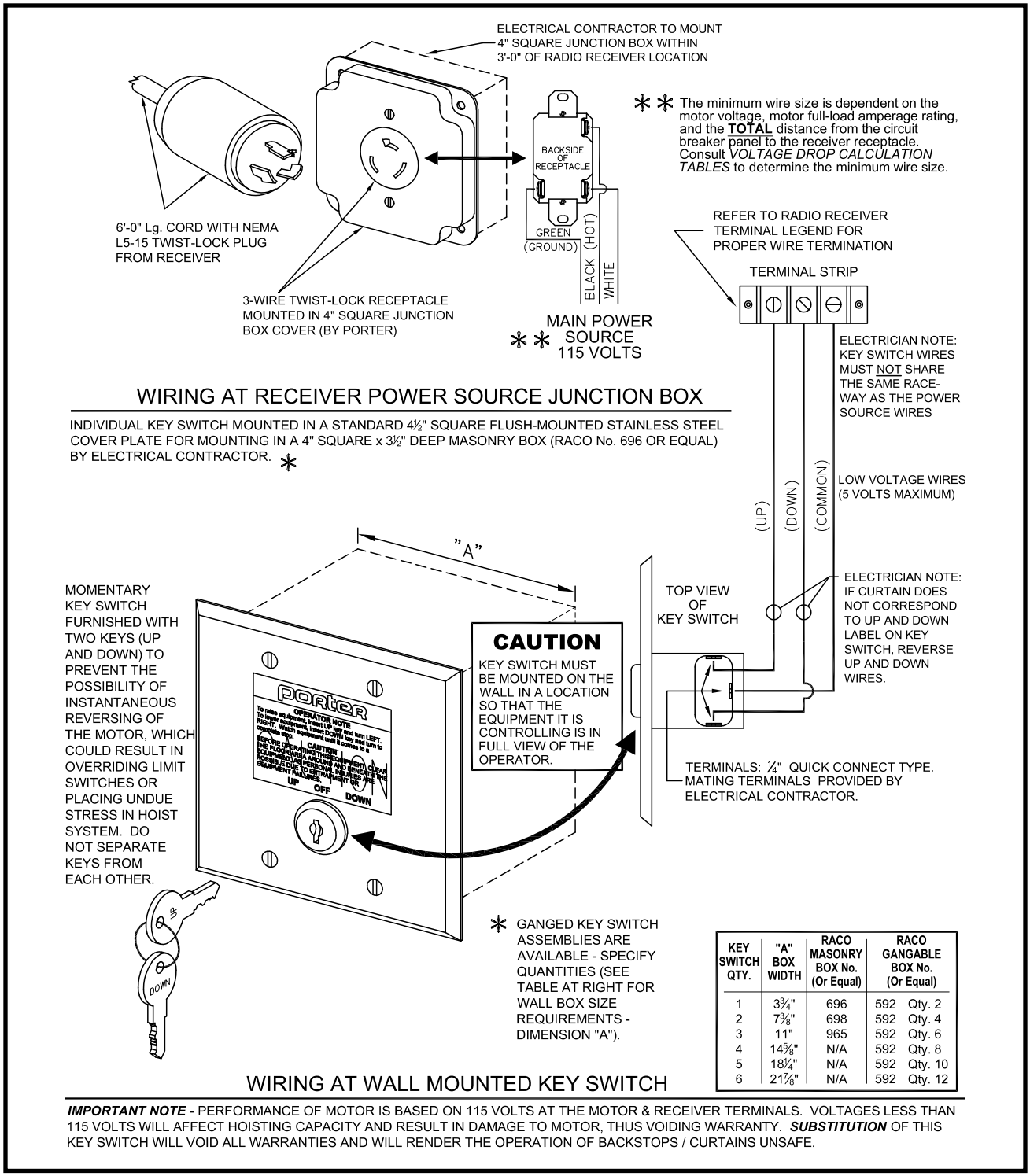
9. Should intermittent operation develop:
   A. Stand closer to the basketball backstop or gym divider curtain receiver unit.
   B. If battery symbol shows low battery, charge the transmitter using a USB-C® cable.

10. Place the portable transmitter control unit(s) **and this Installation & Operation Manual** in the possession of an authorized staff member from the electrical contractor, general contractor, or the school, and demonstrate the operation of the system.

KEY SWITCH WIRING HOOK-UP

The Powr Sonic receivers allows for dual control of equipment (Powr Sonic or key switch). An external 3-screw terminal strip for optional low voltage, key switch type control is provided on the radio receiver. The terminal strip allows for connection of low voltage, dry circuit type (5 volt maximum) key switch wires (up, down and common). Refer to the diagram below for wiring details.

Note: Do not connect high voltage key switch wires to the receiver terminals. Introduction of powered key switch wires at the terminal strip will permanently damage the receiver.



KEY SWITCH QTY.	"A" BOX WIDTH	RACO MASONRY BOX No. (Or Equal)	RACO GANGABLE BOX No. (Or Equal)
1	3¾"	696	592 Qty. 2
2	7⅜"	698	592 Qty. 4
3	11"	965	592 Qty. 6
4	14⅝"	N/A	592 Qty. 8
5	18¼"	N/A	592 Qty. 10
6	21⅞"	N/A	592 Qty. 12

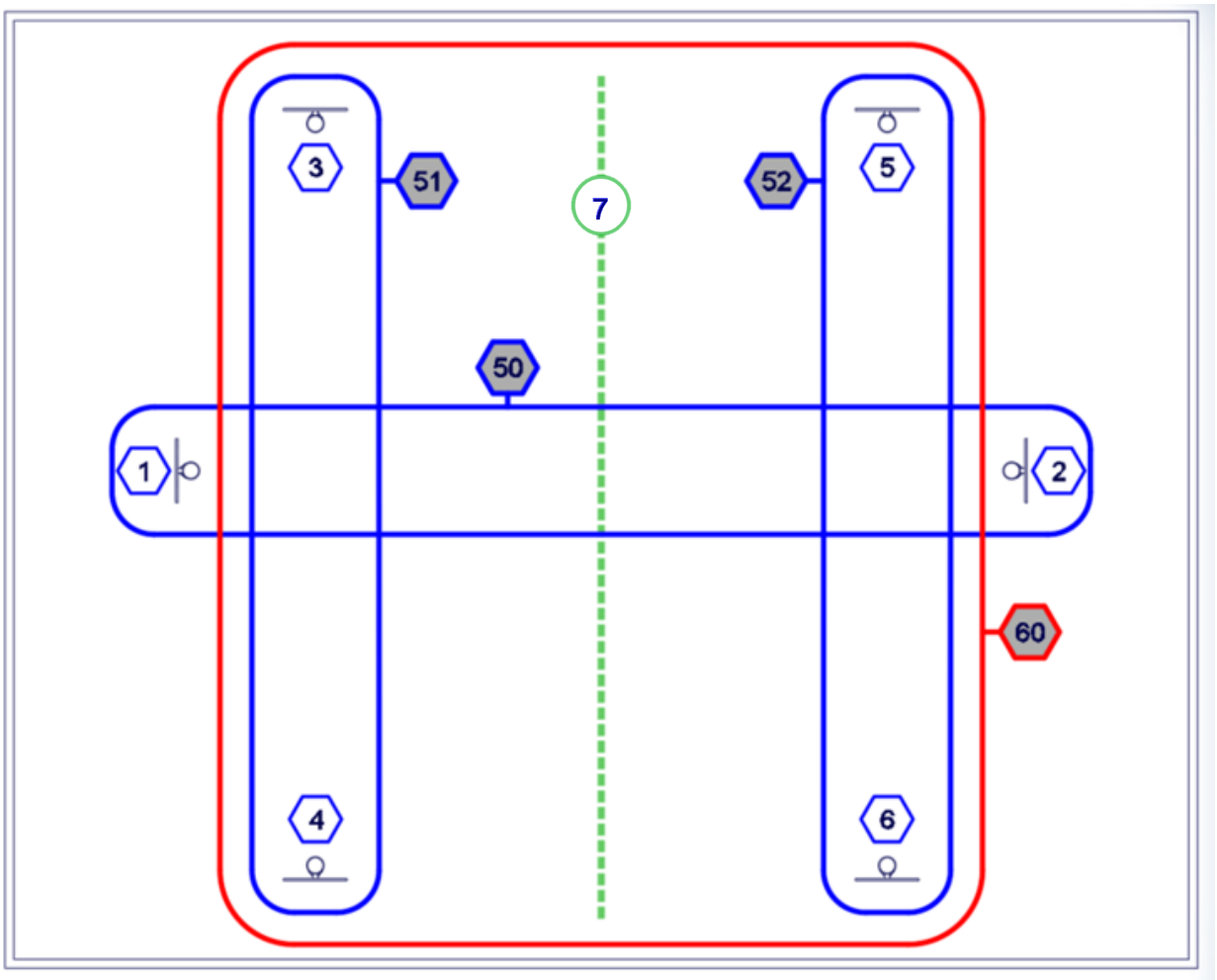
IMPORTANT NOTE - PERFORMANCE OF MOTOR IS BASED ON 115 VOLTS AT THE MOTOR & RECEIVER TERMINALS. VOLTAGES LESS THAN 115 VOLTS WILL AFFECT HOISTING CAPACITY AND RESULT IN DAMAGE TO MOTOR, THUS VOIDING WARRANTY. ***SUBSTITUTION*** OF THIS KEY SWITCH WILL VOID ALL WARRANTIES AND WILL RENDER THE OPERATION OF BACKSTOPS / CURTAINS UNSAFE.

RECEIVER CONFIGURATION EXAMPLE

RECEIVER CHANNEL ASSIGNMENT CHART

Receiver	Equipment	Receiver Channel Selections				
		A	B	C	D	E
1	Backstop 1	01	50	00	00	00
2	Backstop 2	02	50	00	00	00
3	Backstop 3	03	51	60	00	00
4	Backstop 4	04	51	60	00	00
5	Backstop 5	05	52	60	00	00
6	Backstop 6	06	52	60	00	00
7	Curtain 1	07	00	00	00	00

TYPICAL GYM LAYOUT EXAMPLE

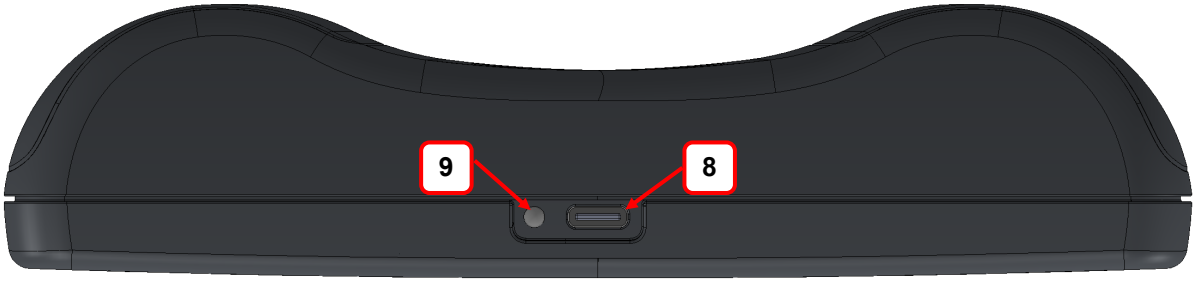


- BACKSTOP
- DUAL BACKSTOP OPERATION
- QUAD BACKSTOP OPERATION
- CURTAIN

TRANSMITTER OVERVIEW

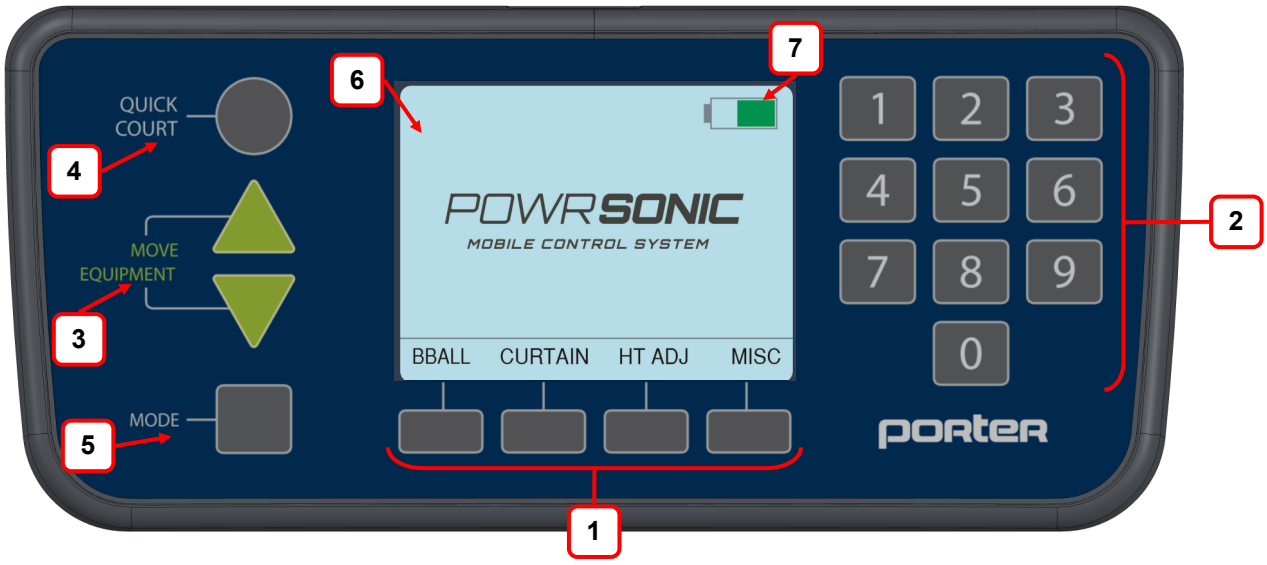
The Powr Sonic transmitter is a hand-held radio control device that operates at 315MHz and can be used to operate gymnasium equipment equipped with Powr Sonic receivers(XELC12003200 or XELC12003300). The Powr Sonic transmitter will operate devices on up to 99 different receiver channels at an unobstructed line-of-sight range of up to 200'. The Powr Sonic transmitter is powered by a rechargeable lithium ion battery that can be charged using the USB-C® connector on top of the remote (Input: 5V⎓600mA). The LED indicator next to the charging port is red while charging and turns blue when the device is fully charged.

TRANSMITTER INTERFACE



Red = Charging

Blue = Fully Charged



1. Navigation buttons
2. Channel selection keypad
3. Equipment operation buttons
4. Quick Court list
5. Mode button for device programming and showing channels on device list screens
6. Display
7. Battery indicator
8. USB-C charging connector
9. Charging indicator LED (Red = Charging, Blue = Fully Charged)

EQUIPMENT OPERATION

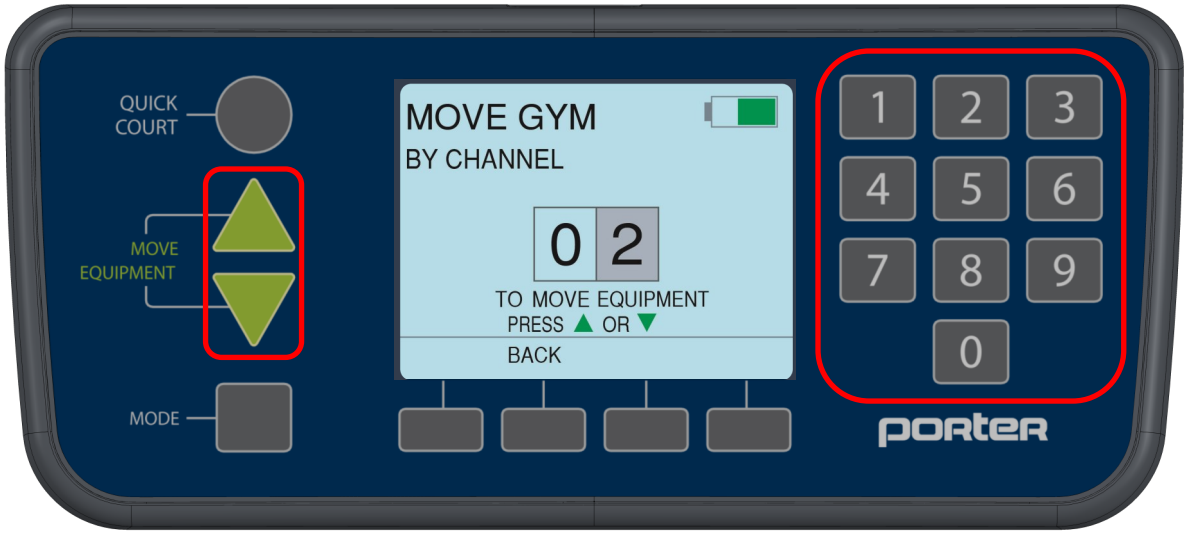
NOTES

- Wake the screen by pressing any button. Note that the remote will wake up on the last screen that was being used before the remote turned off unless it has been asleep for an extended period of time.
- The screen will turn off approximately one minute after the last input.
- There is a protective delay built into the Powr Sonic control system to prevent rapid direction changes.
- Depending on the conditions of the facility:
    - Moving while operating can cause the remote to temporarily lose connection to the receiver.
    - An operator may need to adjust their position in gym for better communication.

KEYPAD OPERATION

The keypad can be used to operate any equipment channels. This includes channels that have not been added to equipment category or Quick Court list items via programming mode.

- From the main screen, use the keypad to type the channel for the equipment you would like to operate. It will bring you to the screen shown below.
- Note that when you select a number on the keypad, the number fills the shaded box and pushes the previous number to the left. In the instance shown below, if you would like to operate channel 3 after operating channel 2, you would have to press 0 and then 3. Pressing 3 in the example below would select channel 23.
- Use the up or down MOVE EQUIPMENT buttons to operate the equipment up or down.
- Press the BACK button to return to the main screen.

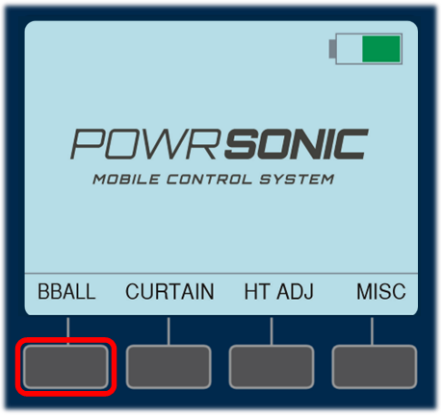


EQUIPMENT OPERATION

LIST OPERATION

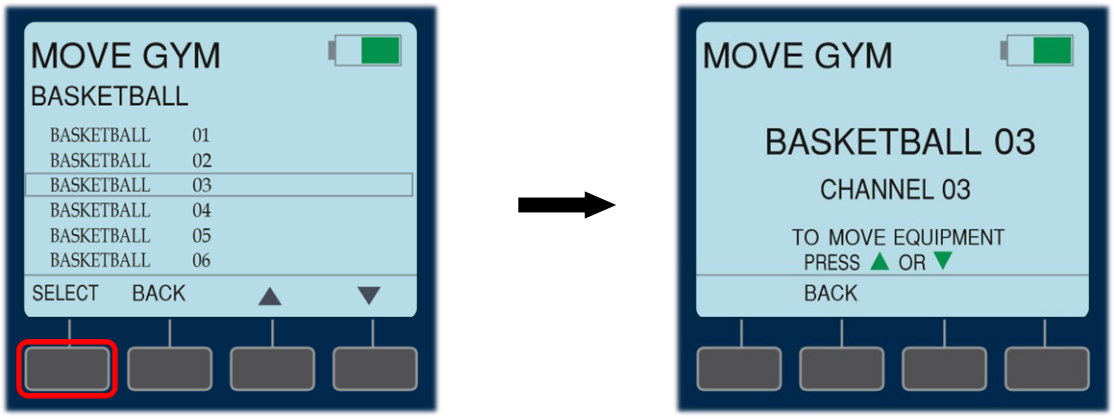
The buttons along the bottom on the main screen allow you to select equipment from a list of devices in the category you chose. (SEE THE PROGRAMMING SECTION FOR INSTRUCTIONS ON HOW TO POPULATE THESE LISTS)

- From the main screen, press one of the navigation buttons to select a category.



- Use the arrow navigation buttons to scroll through the list to the equipment you would like to move.

- Pressing the SELECT button will bring you to a screen that shows your equipment selection and the channel that will be operating. Use the up or down MOVE EQUIPMENT buttons on the left side of the remote to operate the equipment up or down.



EQUIPMENT OPERATION

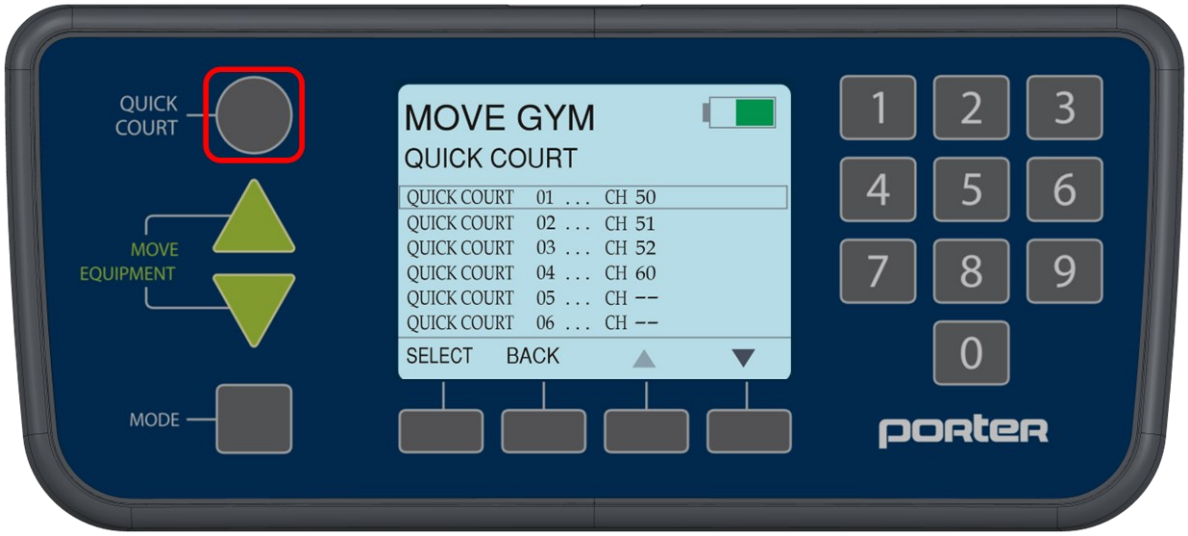
- Press the BACK button to return to the list screen. From the list screen you can select another piece of equipment to operate, or you can press the BACK button again to return to the main screen as shown below.

NOTE: pressing the MODE button while in the list screen will show you what channel has been assigned to each list item. (Proper channel must be assigned to corresponding equipment when programming remote, otherwise equipment in list may not match equipment that is actually moving.)

EQUIPMENT OPERATION

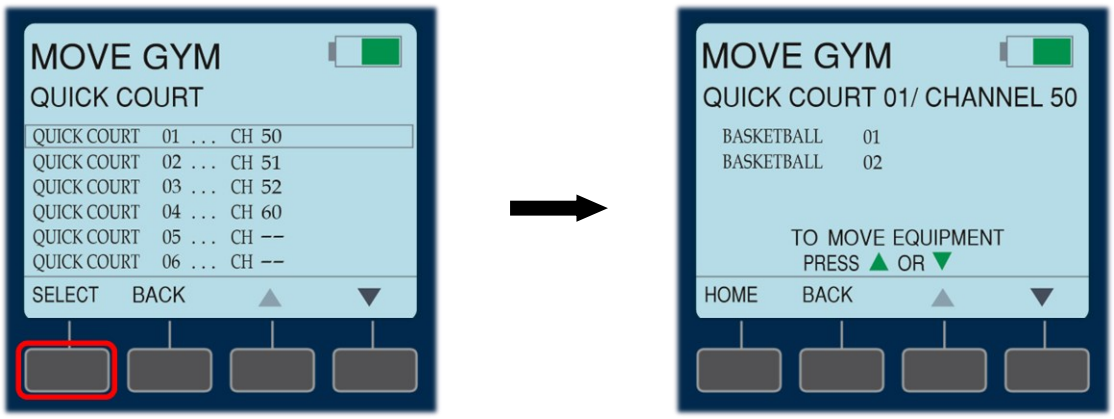
QUICK COURT OPERATION

The QUICK COURT button will open a list of Quick Courts, which is a group of equipment that has been configured **during receiver installation*** to operate on the same channel. The Quick Court list is limited to six items, but additional quick courts can be configured during receiver installation and operated via the keypad. It is recommended that all channel assignments are recorded during receiver installation in case they need to be referenced later.(SEE THE PROGRAMMING SECTION FOR INSTRUCTIONS ON HOW TO ASSIGN A CHANNEL TO A QUICK COURT IN THIS LIST AND HOW TO POPULATE THE QUICK COURT REFERENCE LIST WITH EQUIPMENT)

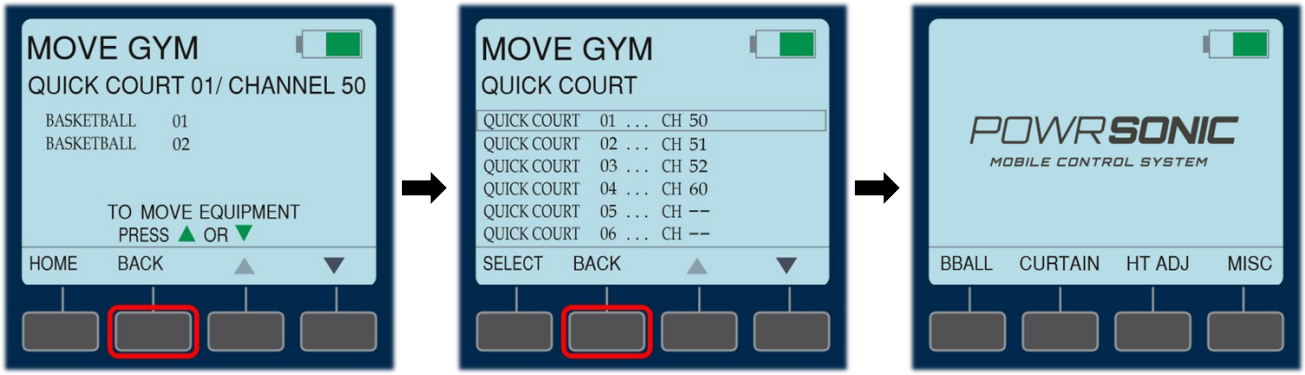


*NOTE: Quick Courts are created **during receiver installation** by setting multiple Powr Sonic receivers to the same channel. The Powr Sonic receivers can each be assigned five channels that can be used to operate that receiver. The first will typically be a unique channel for individual operation. The other four channels can be used to configure group operation. (See Powr Sonic Receiver installation documentation for additional information and examples)

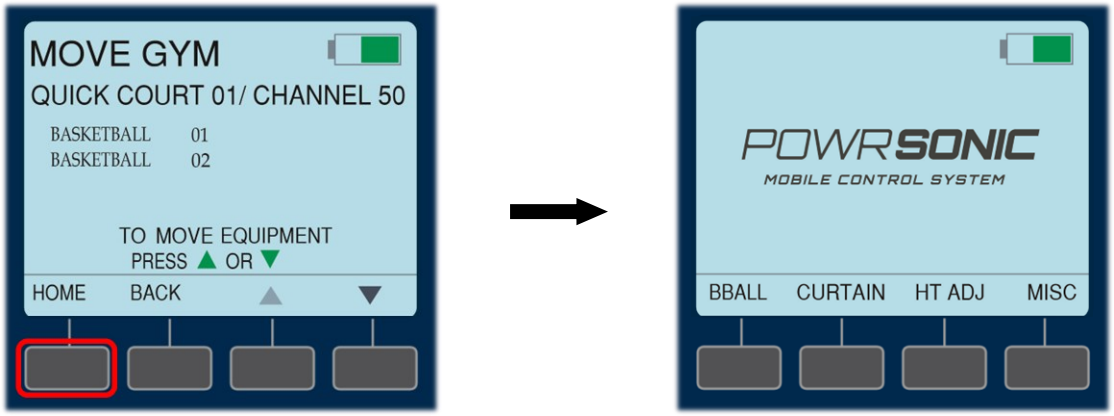
- When you select a quick court, you are moved to a screen that shows the selected quick court, the channel assigned to the quick court, and the reference list of devices in that quick court . If the entire list of equipment does not fit on one screen, use the buttons under the navigation arrows to scroll through the list of equipment. Use the up or down MOVE EQUIPMENT button to operate the equipment up or down.



- Press the BACK button to return to the list screen. From the list screen you can select another Quick Court to operate, or you can press the back button again to return to the main screen as shown below.



- Alternatively, you can press the HOME button to jump straight from the Quick Court operation Screen to the main screen.

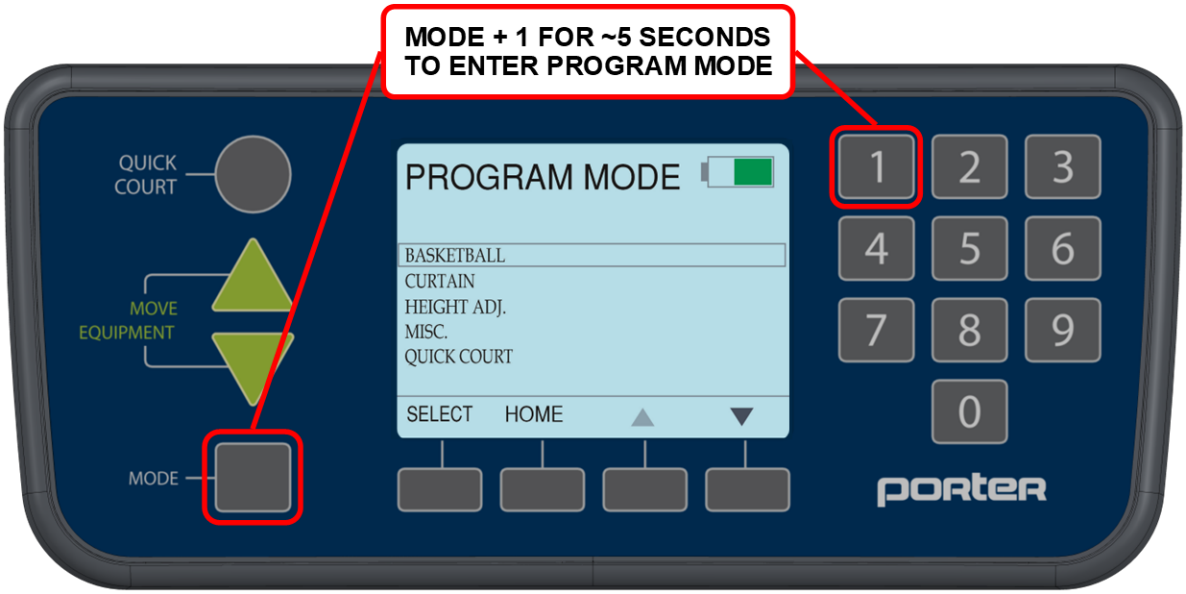


PROGRAM MODE

PROGRAM MODE

Program Mode will be used to assign channels to list items in your equipment categories and Quick Courts. Equipment lists are limited to 32 pre-defined list items in each equipment category and six Quick Courts. Additional pieces of equipment or quick courts beyond the list limits can be operated by the keypad(SEE KEYPAD OPERATION).

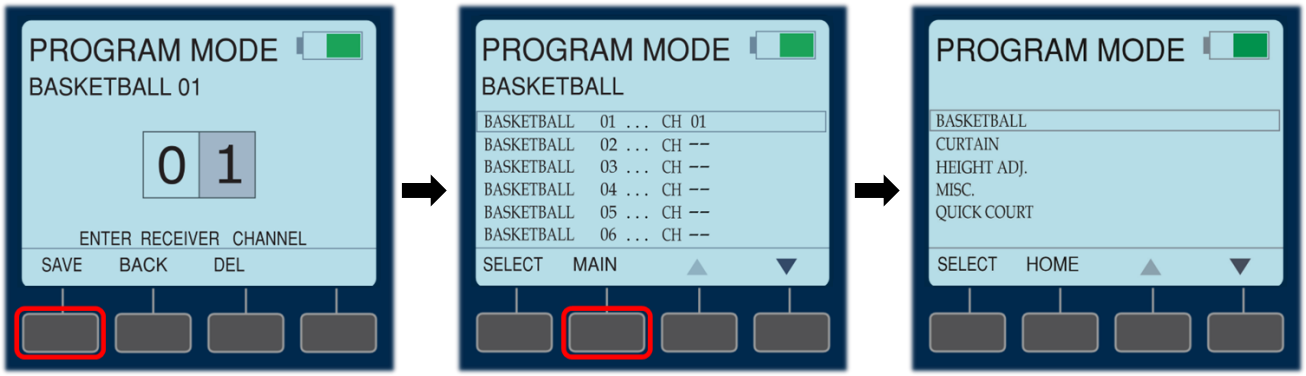
- To enter Program Mode, hold [MODE+1] for ~5 seconds.
  The buttons below the arrows allow you to navigate the list.
  Choose the highlighted category with the SELECT button.
  The HOME button saves the programming and returns you to the main user screen.



- Select the category to start building the equipment list. Navigate to the device number you would like to add to the category list and press the SELECT button.

PROGRAM MODE

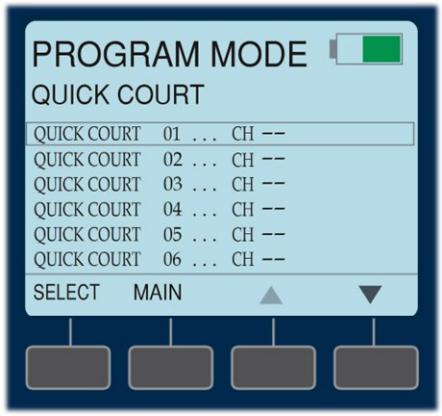
- Use the keypad to select the channel number that corresponds to the device (assigned on the receiver unit at the equipment) and press the SAVE button. Pressing SAVE will return you to the category list. There is also a BACK option if you want to go back and make a different equipment selection. The DEL option will remove the currently selected channel number. Alternatively, you could re-type your channel selection to overwrite whatever is currently selected. From the list screen, click the “MAIN” button to return to the main Program Mode menu.



PROGRAM MODE

QUICK COURT PROGRAMMING

- The QUICK COURT selection on the main PROGRAM MODE page will bring you to a list similar to the equipment category lists, but there will only be six lists available to program. Pressing the MAIN button will bring you back to the main page of PROGRAM MODE. Use the buttons below the arrows to navigate to the quick court number you would like to program and press the SELECT button to start programming the quick court.



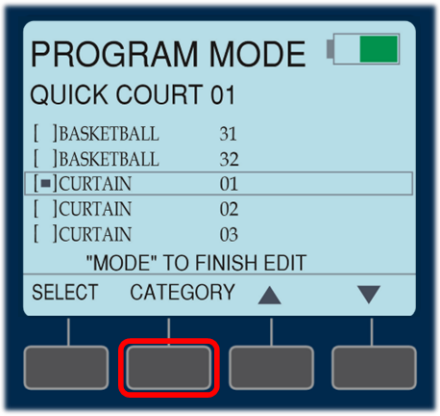
- The first page will have you select the channel that will be associated with the quick court number (the channel that was programmed on the receivers connected to the equipment you want to operate as a quick court). Use the keypad to select the channel. If you need to replace the channel you just typed, either overwrite it by making another selection with the keypad, or press the DEL button and then use the keypad to select the channel. Press the SAVE button to save the channel selection and move on.

PROGRAM MODE

- The next page allows you to select the equipment that will be operated on this quick court. Note that this list is for reference only. This list does not determine the equipment that will be operated. If you add a piece of equipment to this list that does not have a receiver set to the selected Quick Court channel, IT WILL NOT OPERATE. Take care to match the list to the equipment that has receivers that are set to the channel selected for this Quick Court.

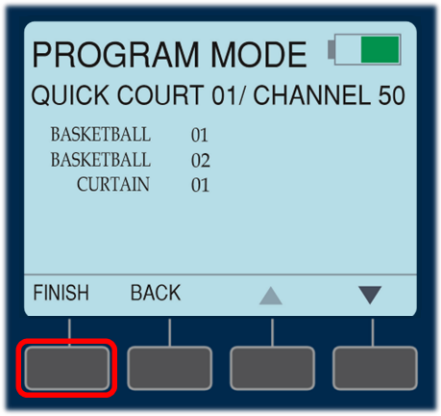
- Use the buttons below the arrows to navigate the list and press the SELECT button to add the highlighted equipment to the list. The brackets next to the equipment will be filled in with a box to show that the equipment will be added to the list.

- Use the button below CATEGORY to quickly jump to the next type of equipment in the list. For example, if you are in the BASKETBALL portion of the equipment list, pressing the CATEGORY button will jump the selection box to the CURTAIN section.



PROGRAM MODE

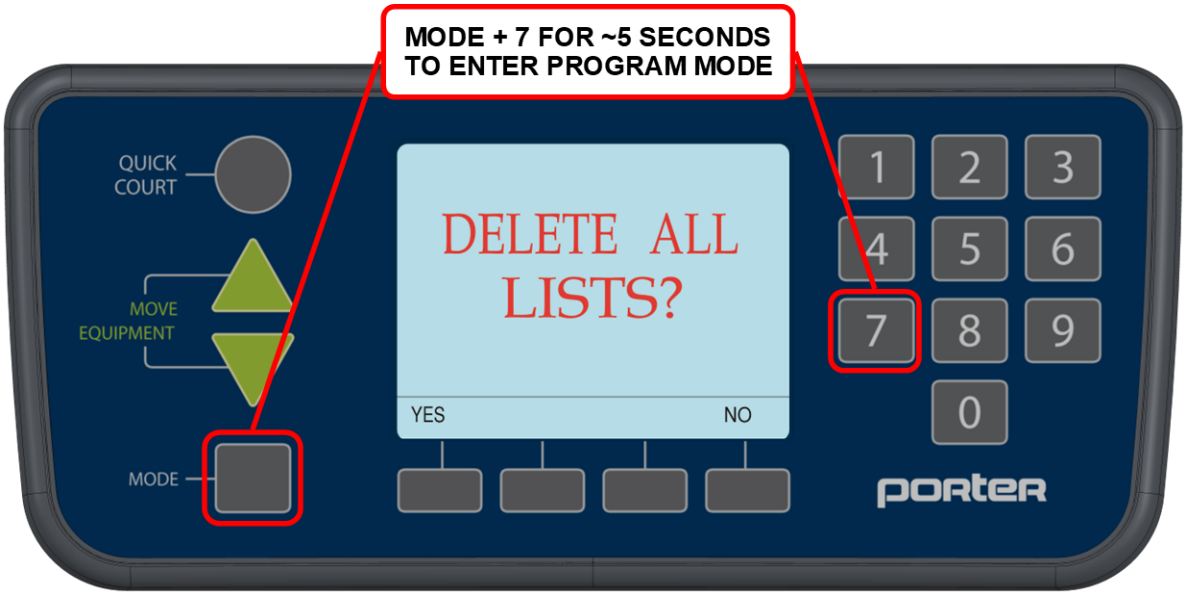
- Press the MODE button on the bottom left-hand portion of the remote to move to the next page where you can review your list. If the selections are correct, press the FINISH button to finish setting up the quick court. If you would like to edit the selections, press the BACK button.



- If you are done programming Quick Courts, press the MAIN button to return to the main page of program mode.

CLEAR EQUIPMENT LISTS

If you would like to clear all list programming from the remote, hold [MODE+7] for ~5 seconds and then press the YES button. Cancel the operation by selecting NO.



TROUBLESHOOTING GUIDE

If the gym equipment is not operating try these potential solutions:

- Make sure the transmitter remote is charged. The signal could be weak if the battery is low.
- Check to ensure that power is available at all winches. A fuse or circuit breaker may have opened the circuit without your knowledge.
- Check that all plugs are seated firmly in their respective receptacles.
- Verify that the selected equipment to operate corresponds with the channel selected on the Powr Sonic transmitter.
- If the SIGNAL LED on the receiver illuminates and the device plug is seated firmly in the receiver receptacle, the device may have reached the limit set in the selected direction. Verify by operating in the opposite direction.
- If you have verified the channel selected on the transmitter is correct, that there is power to the system, and the SIGNAL LED is not illuminating on the front of the receiver, then the receiver channels may not have been saved during installation. In this case, they will need to be re-set. NOTE: If power is removed from the receiver during channel setup without allowing the channel indicator to shut off(~10 seconds after last input) by itself, then the channel(s) will not save.

FCC COMPLIANCE STATEMENT

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

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

INSTALLER NOTES

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SAVE THESE INSTRUCTIONS FOR FUTURE USE