Performance 2

Preamplifier

Constellation

User Manual

ANCE PREAMP

R

29.5 -dB

⏻   PHASE+   🔊

VOLUME

The Sound of Perfection.

The Constellation Performance 2 Preamplifier has been engineered to deliver an unmatched combination of sound quality, user-friendliness and flexibility. It employs the same revolutionary Line Stage Gain Module circuit pioneered by Constellation and proven over more than a decade of use. Its performance is elevated to even higher levels with a separate, physically isolated power supply featuring our proprietary Switch Mode Power Supply incorporating core technologies that achieve their fullest potential in the elite Performance 2 series.

The LCD touchscreen affords easy access to every adjustment, accompanied by an elegant, machined aluminum remote control. The advanced design of this component necessarily demands a somewhat different setup process compared with typical stereo preamplifiers. Reading this manual before operating the Performance 2 Preamplifier will assure maximum performance from your system.

For technical updates, visit **ConstellationAudio.com**

Contents

3 YEARS Limited Warranty

The Sound of Perfection. Built with Pride.

We stand behind this Constellation product with our 3-year* pledge, offering customers peace of mind against product defects when purchased new from an authorized Constellation Sales Agent. Action required: The Limited Warranty must be activated within 30 days of purchase. Scan the QR code now.

ConstellationAudio.com / warranty

STANDBY MUTE

BALANCE

Installing the Performance 2 Preamplifier

In case of malfunction

Do not under any circumstances open the cabinet of the Performance 2 Preamplifier or power supply. There are no user-serviceable parts inside. Opening the cabinet can present a shock hazard even if the AC power is disconnected. Any alteration or modification of the component's internal parts or circuitry will void the warranty. If the component does not function properly, refer to the Troubleshooting section at the back of this manual. If you are still unable to resolve the problem, contact your Constellation dealer. If liquid is spilled on the component, or if any metal object is inadvertently forced inside, immediately disconnect the AC power and contact your Constellation dealer.

Unpacking

Take care removing the Performance 2 Preamplifier and power supply from their packaging. The dimensions and weight of the aluminum chassis and internal components are greater than you might anticipate. The machined finish is delicate and you may wish to use gloves to avoid leaving fingerprints on the surface.

Installation notes

The Performance 2 Preamplifier must be located in an area with adequate ventilation so that heat does not build up. There should be at least 6 in/15 cm of clearance between the sides and top of the unit and the nearest wall or cabinet. If the component is installed in a cabinet or an equipment closet, ensure adequate ventilation. Installation in an unventilated cabinet or closet may cause overheating and reduce the lifespan of internal components.

The Performance 2 Preamplifier operates ideally at an ambient temperature of 70°F/21°C, plus or minus 10°F/5°C. Never install the component in a place where it may be exposed to direct sunlight, and do not install it next to a heater, radiator, air conditioner, humidifier, etc. Make sure the component will not be exposed to moisture. Do not locate it in an area where it can encounter liquids, and do not place it in a humid location, such as an unfinished basement.

Before making or changing any connections to the Performance 2 Preamplifier, turn off the master power switch on the rear panel of the power supply and let the units cool down. When connecting or disconnecting the AC cord, always grasp it by the plug, not by the cord itself. Pulling the plug out by the cord can damage the cord, the AC socket, and the component itself.

(!) **CAUTION:** Installing the Performance 2 Preamplifier in a place where it will be exposed to direct sunlight or moisture, or where it will not have adequate ventilation, will void the warranty.

Source components

The Performance 2 Preamplifier has four analog audio inputs—four balanced (XLR) and four unbalanced (RCA)—and can be used with any audio source component with line-level analog outputs. An XLR connection will provide the highest quality signal, and should be used when possible. If you are using a record turntable, you will need to connect a high-quality phono preamplifier, such as the Constellation Performance 2 Phono Preamplifier, between the turntable and the Performance 2 Preamplifier. Before making or changing any connections to the Performance 2 Preamplifier, turn off the master power switch on the rear of the power supply, and turn off the power amplifier(s).

Power Supply Connections

(!) **CAUTION:** The Performance 2 Preamplifier uses a separate power supply that must be connected to the Performance 2 Preamplifier main chassis prior to plugging the unit into the AC wall outlet. Make sure the power switch on the power supply is in the off (O) position. Only the supplied cables should be used between the power supply and the Performance 2 Preamplifier.

(!) **CAUTION:** The power supply units for the Performance 2 Preamplifier and other Constellation products are NOT interchangeable. Ensure that only the power supply included with the Performance 2 Preamplifier is used.
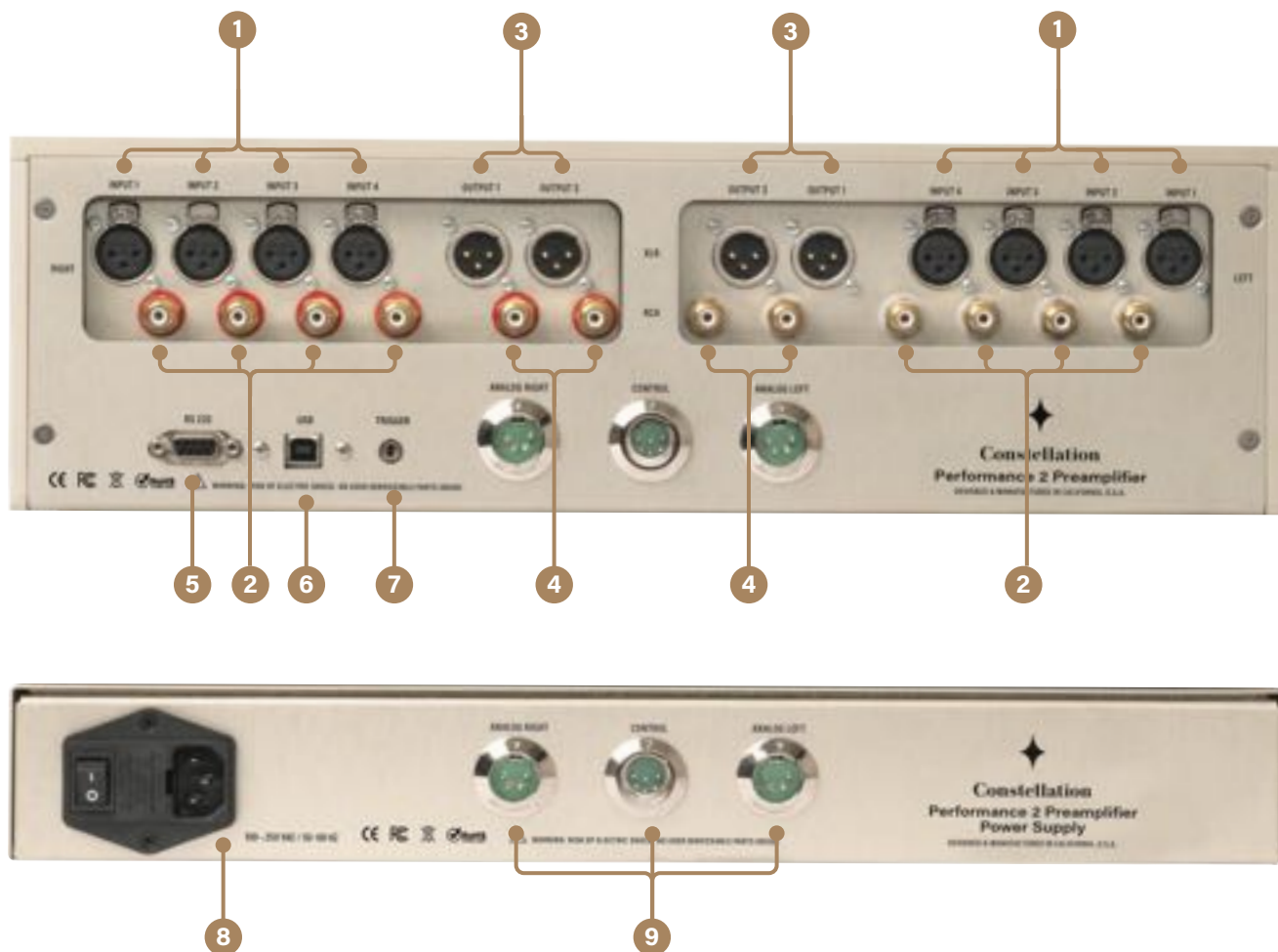
Connect the Analog Right, Analog Left, and Control power cables from the power supply to the corresponding jacks on the preamplifier. Next, plug the Performance 2 Preamplifier power supply into the AC wall outlet. Leave the master power switch off until all other equipment has been connected to the Performance 2 Preamplifier.

(!) **CAUTION:** Do not remove the power cables while the unit is powered on. If one of them is accidentally disconnected, DO NOT plug it back in. Turn off the power supply using the hard switch on the rear panel of the power supply, unplug the unit, then replace the cable. Failure to power down the unit before replacing a power cable can result in substantial damage to the Performance 2 Preamplifier.

If using a Constellation amplifier (or any other high-powered amplifier), do not plug the Performance 2 Preamplifier into the same AC wall socket or into any other outlet connected on that circuit. Constellation amplifiers draw a great deal of power and could affect the performance of the Performance 2 Preamplifier if it and the amplifier(s) are plugged into the same electrical circuit or AC outlet.

When connecting or disconnecting the AC cord, always grasp it by the plug, not by the cord itself. Pulling the plug out by the cord can damage the cord, the AC socket, and/or the Performance 2 Preamplifier.

Input and Output Connections

① XLR inputs

On the rear of the Performance 2 Preamplifier are eight XLR inputs, four on each side. Looking at the rear panel, the left four XLR inputs are for the right channel, the right four inputs are for the left channel. Underneath each jack is the corresponding input number. Use of XLR connections is recommended for the best possible audio quality. To remove an XLR plug, push on the tab above the jack and pull the plug out.

② RCA inputs

These unbalanced inputs are provided as a convenience for use with unbalanced signal sources. When possible, we recommend using XLR connections instead. Connecting to an unbalanced source is accomplished in the same fashion as an XLR balanced source. To remove an RCA plug, grasp the plug and pull it out. Do not pull on the cable.

③ XLR outputs

The four inner XLR connections on the rear of the Performance 2 Preamplifier are outputs. The signal at these outputs is the same—it does not matter if output 1 or output 2 is used. Looking at the rear panel of the Performance 2 Preamplifier, the outputs on the left side are for the right channel, the outputs on the right are for the left channel. Be sure to match the output to the correct channel on the amplifier. To remove an XLR plug, push on the tab on the connector body and pull the plug out.

When XLR connections are used to connect the Performance 2 Preamplifier with any Constellation amplifier, it creates Constellation Direct—an audio interface that bypasses the amplifier's input stage for sound that is even more pure and refined. The positive- and negative-going halves of the signal will exhibit near-zero difference except polarity.

4 RCA outputs

RCA unbalanced outputs are also supplied for amplifiers and recording devices not equipped with XLR jacks. The signal at these outputs is the same—it does not matter if output 1 or output 2 is used. Looking at the rear panel of the Performance 2 Preamplifier, the outputs on the left side are for the right channel, the outputs on the right are for the left channel. Be sure to match the output to the correct channel on the amplifier. To remove an RCA plug, grasp it by the connector body and pull the plug out. Do not pull on the cable.

5 RS 232 / control

This connector is used to interface the Performance 2 Preamplifier with third-party control systems such as those from AMX, Crestron, Control4 and Savant, and also to update the firmware of the component. For more information, contact your Constellation dealer.

6 USB / control

This USB jack interfaces the Performance 2 Preamplifier with third-party control systems such as those from AMX, Crestron, Control4 and Savant, and also to update the firmware of the component. For more information, contact your Constellation dealer.

7 Trigger output

This 3.5mm jack outputs a 12-volt DC trigger signal when the Performance 2 Preamplifier is powered on. This signal can be used to automatically turn on a connected amplifier equipped with a DC trigger input, or to trigger home automation systems.

8 AC power input

This input accepts a standard 15-amp IEC AC connector. The AC cord supplied with the Performance 2 Preamplifier can be substituted with an aftermarket cord, provided it uses a similar connector. Before making this connection, turn the power switch next to the AC input to the off position. Connect the AC cord to the Performance 2 Preamplifier, then plug the AC cord into the wall or a power conditioner, then turn the power switch of the component to the on position.

9 Power connections

These jacks connect to the power inputs of the Performance 2 Preamplifier. Special cables designed specifically for this purpose are included. Each of these cables mates with a matching jack on the preamplifier. Be sure to connect the Analog Right, Analog Left and Control power cables from the power supply to the respective jacks on the preamplifier.

NOTE: To preserve true dual-mono operation, the Performance 2 Preamplifier uses a symmetrical circuit layout. This configuration requires that the component's rear panel connections be laid out differently from those on most preamplifiers. For example, the left-channel connection is on the right side of the rear panel, and the right-channel connection is on the left side. Connecting the cables in the usual side-by-side fashion will result in an incorrect installation and the mixing of sounds from different source devices.

10-16 Front panel controls

The front panel includes an LCD touchscreen and two knobs plus five buttons positioned underneath the display. These buttons allow the Performance 2 Preamplifier to be operated without using the remote control. The functions of the buttons are shown using icons on the touchscreen.

10 Balance

This knob adjusts left-to-right balance when an input screen is displayed—i.e., when an input is selected. Turn the knob counterclockwise to shift the balance to the left, clockwise to shift the balance to the right. The screen will indicate if the balance is centered or how far it is shifted to one side or the other.

11 Volume

The volume control is always active when the Performance 2 Preamplifier is powered on and the mute is deactivated. Note that the control is calibrated in negative decibels (-dB), reaching maximum volume at 0.0 dB and minimum at -99.0 dB. Thus, when the volume is turned up (clockwise), the number on the front display will decrease. When the volume is turned down (counterclockwise), the number will increase. The adjustments steps are in 1 dB increments between -99.0 dB and -50.0 dB, and 0.5 dB increments from -49.5 dB to 0.0 dB.

12 Home

This button returns to the input select screen, regardless of which control screen is currently viewed.

13 **Return/back**

This button returns to the previous control screen. For example, from any input screen, such as XLR 1, it will return to the input selector screen.

14 **Standby/power**

This button powers the Performance 2 Preamplifier on and off. When the unit is turned on, it requires a few seconds to warm up. When ready for use, the LCD screen will show the most recently selected input. To put the unit in Standby mode, press this button again after turning the power on. Hold this button down for 5 seconds to turn the component off. The unit will enter cool-down mode for 10 seconds. During cool-down, no buttons on the unit or remote will operate.

15 **Multifunction button**

The multifunction button serves different functions depending on which control screen is shown. A label on the LCD display will show the function of the button.
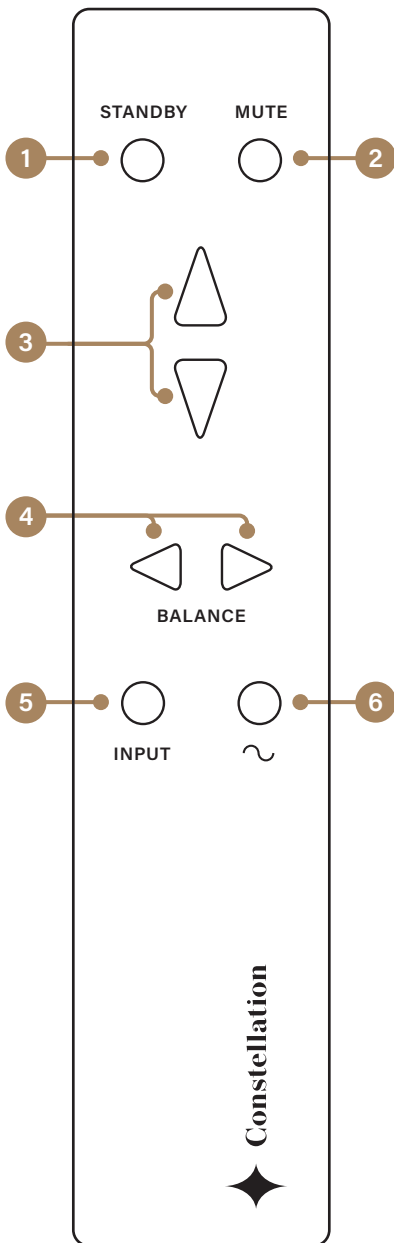
16 **Mute**

This button will silence the Performance 2 Preamplifier temporarily. The numerical volume readout will flash. Press again to restore the audio. Because the component uses a relay to perform the mute function, there is a second-long delay for this control to respond.

17 **Rear panel power switch**

The master power switch for the Performance 2 Preamplifier is located on the rear of the power supply. The power/standby buttons on the front panel of the preamplifier and remote control will not function when this switch is flipped down. To power up the Performance 2 Preamplifier, first flip this switch up, then either press the Standby button on the remote, or press the front of the touchscreen and hit the onscreen Power button or the middle button under the touchscreen.

Remote Control Operation

The remote control operates the basic functions of the Performance 2 Preamplifier. It does not operate Constellation source devices, such as the Performance 2 Phono Preamplifier.

1 Balance

Push this button to turn the Performance 2 Preamplifier on and off. After turning the unit on, it will take a few seconds to warm up. When the component is ready for use, the front-panel LCD screen will show the most recently selected input. To put the unit in Standby mode, press this button again after turning on the power. Hold this button down for 5 seconds to turn the unit off. The component will enter cool-down mode for 10 seconds. During cool-down, no buttons on the unit or remote will operate.

2 Mute

Press this to button to temporarily silence the Performance 2 Preamplifier. The numerical volume readout will flash. Press again to restore the audio. Because the component uses a relay to perform the mute function, there is a second-long delay for this control to respond.

3 Volume up/down

Press these buttons to raise or lower the volume. Each press changes volume by 1 dB at volumes below -50.0 dB, and 0.5 dB at volumes above -50.0 dB. Holding the buttons down raises or lowers the volume quickly.

4 Balance left/right

Press these buttons to shift the balance to the left or right. Each press changes the balance by 0.1 dB.

5 Input

Press this button to select among the XLR and RCA inputs. A slight delay is normal when selecting inputs, because for best sound quality the Performance 2 Preamplifier uses relays to switch inputs.
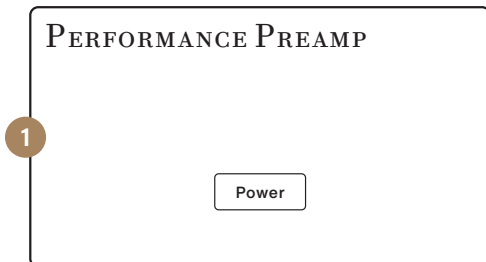
6 Phase

Press this button to reverse the phase of the Performance 2 Preamplifier output for the selected input. Use whichever setting sounds better.

NOTE: The battery in the remote control should last about a year under normal use. If the amplifier does not respond to the remote, refer to page 16 for instructions on battery replacement.
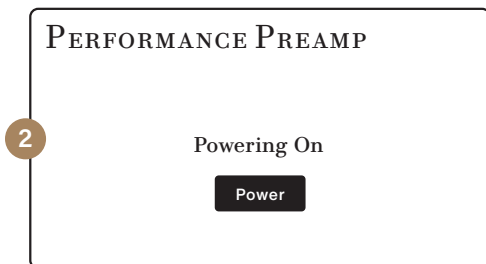
Digital Control Screens

Many functions of the Performance 2 Preamplifier are controlled through the front-panel LCD touchscreen. Control screen functions are described below:
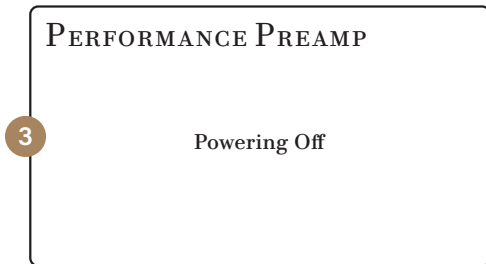
PERFORMANCE PREAMP

Power

1

PERFORMANCE PREAMP

Powering On

Power

2

PERFORMANCE PREAMP

Powering Off

3

PERFORMANCE PREAMP
XLR-1

29.5 -dB

| XLR-1 | XLR-2 | XLR-3 | XLR-4 |
| RCA-1 | RCA-2 | RCA-3 | RCA-4 |

⌂   ⏻   SETUP   🔊

4

PERFORMANCE PREAMP
XLR-1

BALANCE
17
L   R

29.5 -dB

⌂   SETUP   ⏻   PHASE+   🔊

5

1 Standby

This screen appears if touching the screen when the rear-panel master power switch is flipped up. Pushing the onscreen Power button (or the Standby button on the remote) will power up the Performance 2 Preamplifier and put it into warmup mode.
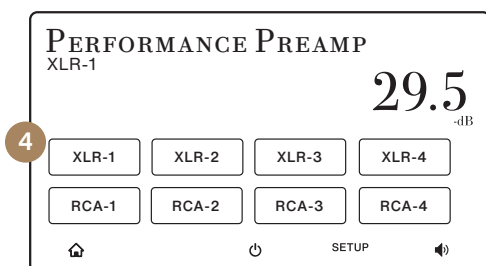
2 Powering on

This screen appears after pressing the onscreen Power button or the Standby button on the remote while the Performance 2 Preamplifier is powered down. It indicates that the unit is in warmup mode. No buttons will function when this screen appears. After about 10 seconds, the component will become active and an input screen will appear.
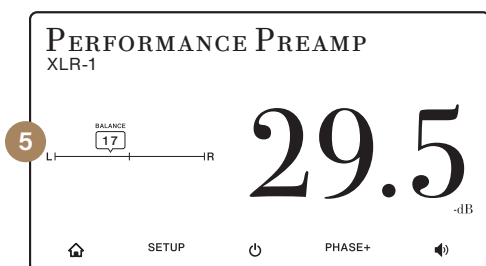
3 Powering off

This screen appears for about 10 seconds after pushing the Standby button under the middle of the front touchscreen or on the remote while the Performance 2 Preamplifier is powered on. It indicates that the unit is powering off and going into Standby mode. No buttons will function when the screen appears.

4 Input selector (Home)

This screen appears when the power is on and the unit is warmed up. Touching any input button onscreen will switch to that input. The setup screen can be accessed from this screen using the multifunction button below the display.
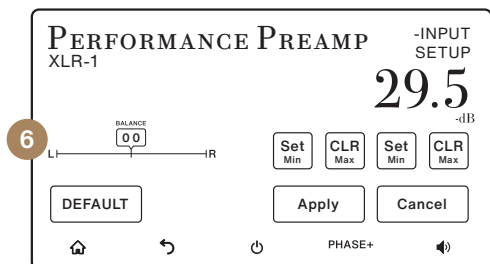
5 Volume/balance

This screen will appear when an input is selected. It provides a large volume display as well as the display for the balance control. The balance control functions only when this screen is shown. Pushing the multifunction button under the Setup label enters the input setup screen.

NOTE: When the input screen is displayed, the phase of the Performance 2 Preamplifier output can be switched using the button under the fourth indicator on the lower part of the touchscreen. When the phase is positive (normal) the indicator will read PHASE+. When the phase is flipped, the indicator will read PHASE-. Phase can also be switched using the Phase button on the remote control.
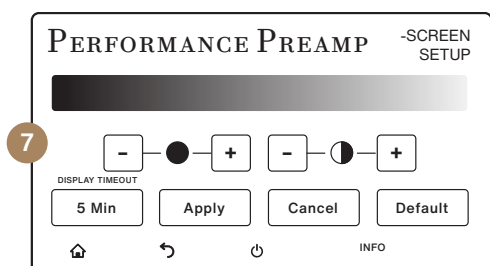
Digital Control Screens (continued)

PERFORMANCE PREAMP
XLR-1
-INPUT SETUP

29.5
-dB

BALANCE
0 0
L⊢————————⊣R

| Set Min | CLR Max | Set Min | CLR Max |

DEFAULT   Apply   Cancel

⌂   ↩   ⏻   PHASE+   🔊

PERFORMANCE PREAMP
-SCREEN SETUP

– ● + – ◐ +

DISPLAY TIMEOUT

| 5 Min | Apply | Cancel | Default |

⌂   ↩   ⏻   INFO

PERFORMANCE PREAMP

PRODUCT INFO

Serial Number 4 X 6 6 9 - 1 2 - 0 B 0 0 0 2 0 0
Unit Firmware 2 0 1 4 1 2 0 4 - 1 9 : 0 2
Display Firmware 2 0 1 6 1 1 2 1 - 1 0 : 2

⌂   ↩   ⏻

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6 Input setup

When pressing the multifunction button labeled Setup on the input screen allows users to set up a home theater bypass input, and set minimum and maximum output levels.

To set minimum and/or maximum levels: Adjust the volume to the desired minimum or maximum level, and press either the Set Min or Set Max button, depending on which function is desired, and hit Apply to accept the setting. To clear the setting, press either CLR Min or CLR Max as appropriate, or press Default to clear both settings.

To set up a home theater bypass input: Select the input to use for this function, then adjust the volume on the Performance 2 Preamplifier to the desired level. Push the Set Min button, then the Set Max button, then the Apply button. To clear these settings, press CLR Min then CLR Max, or press Default.
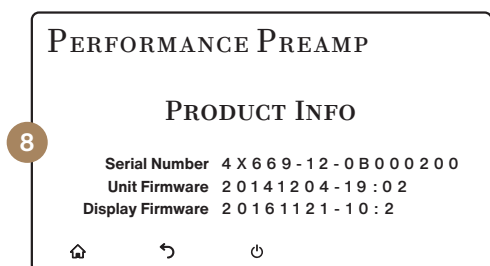
7 Screen setup

To adjust LCD brightness: Press the + and – buttons on the left side of the screen, on either side of the dark dot.

To adjust LCD contrast: Press the + and – buttons on the right side of the screen, on either side of the half-dark/half-light dot.

To adjust LCD backlight timeout: Press the Timeout button in the lower left corner to keep the screen lit for 15 sec., 30 sec., 1 min., 5 min., 10 min., and always on.

To accept or cancel screen setting changes: Press the Apply or Cancel button, respectively.

To return to the factory default settings: Press the Default button. This will bring up a screen asking, "Are you sure you want to set this device to its default settings?" Hit the Yes button to go to default settings; the No button to cancel.

8 Configuration

This screen is accessed using the multifunction button labeled Info on the screen setup screen. It is for servicing use only.

Operation

▶ **Step 1**

Before making or changing any connections to the Performance 2 Preamplifier, ensure the master power switch on the rear of the power supply is turned off, and turn off the power amplifier(s). If the AC has not been connected, connect the unit to the wall AC power socket using the supplied cord.

▶ **Step 2**

To turn on the Performance 2 Preamplifier from the front panel, ensure the power switch on the rear of the power supply is on, and the power amplifier is powered off. Next, touch the LCD touchscreen. It will illuminate and a power button will appear onscreen. To power up the Performance 2 Preamplifier, press the onscreen Power button, the middle button under the touchscreen or the Standby button on the remote control.

When turning on the power, the internal relays of the Performance 2 Preamplifier will click as the unit goes into warmup mode. The touchscreen will read Powering On. After about 10 seconds, an input screen will appear and the most recently used input will be selected. Once the Performance 2 Preamplifier and the source devices are fully powered up, it is safe to turn on the power amplifier.

▶ **Step 3**

To change to a different input from the front panel, press the button under the Home icon. This will bring up the input select screen. Push an onscreen button (XLR-1, RCA-1, etc.) to select the desired input. The screen for that input will appear. Alternatively, scroll through the available inputs using the Input button on the remote. Enable playback on the chosen source device.

Operation (continued)

▶ Step 4

Adjust listening volume with the volume knob on the front of the unit or the volume up/down buttons on the remote. Note that the control is calibrated in negative decibels (-dB), reaching maximum volume at 0.0 dB and minimum at -99.0 dB. Thus, when turning the volume up (clockwise), the number on the front display will decrease. When turning the volume down (counterclockwise), the number will increase.

▶ Step 5

To adjust left-to-right balance, turn the balance knob. Counterclockwise shifts the balance to the left, clockwise shifts it to the right. Or use the buttons on the remote; left shifts the balance to the left, right shifts to right. The onscreen indicator will show the balance setting in 0.1 dB increments.

▶ Step 6

To mute the sound, press the Mute button on the remote or the second button from the right under the touchscreen (only available when the home and volume/balance screens are displayed). An X will appear next to the speaker icon, and the volume

indicator will flash. To unmute the system and restore sound, press the Mute button on the remote control or the button under the touchscreen.

▶ Step 7

A maximum output level can be set to prevent damage to speakers if the level is accidentally turned up too high, and a minimum output level can be set so that the Performance 2 Preamplifier always delivers an audible volume. To do this, adjust the volume to the desired minimum or maximum level. Push the multifunction button labeled Setup. Press either the Set Min or Set Max button, depending on which function is desired. Hit Apply to accept the setting, or Cancel to return to the original setting. To clear the setting, press either CLR Min or CLR Max as appropriate, or press Default to clear both settings.

▶ Step 8

If using the Performance 2 Preamplifier in a home theater system, in conjunction with a surround-sound processor, set up one input for home theater bypass. When switching to this input, volume and balance will be at fixed settings and channel balance adjustments in the surround processor will be preserved. To do this, first select the desired input for this function. Now adjust the volume on the Performance 2 Preamplifier to the desired level. Push the multifunction button labeled Setup. Push the Set Min button, then the Set Max button, then the Apply button. To clear these settings, press CLR Min then CLR Max, or press Default.

▶ Step 9

To turn the system off, stop playback on the source device. Hold the Standby button in the middle under the LCD touchscreen or on the remote control down for 5 seconds. The unit will enter cool-down mode for 10 seconds, during which no buttons will work. After cool-down mode finishes, the unit can be turned back on again as described in Step 2 above.

Maintenance and Troubleshooting

The Performance 2 Preamplifier requires no regular maintenance. If the unit's surface becomes dusty, gently wipe it off with a soft dry cloth in the direction of the metal grain; not a circular motion. Do not spray cleaners on the surface. To clean fingerprints from the surface of the unit, spray a small amount of mild window cleaner such as Windex onto a soft dry cloth, then use the cloth to remove the fingerprints. Do not spray the cleaner directly onto the component.

Unit will not turn on

1. First, check to see if the rear master power switch on the power supply is on. If it is, try the following steps in order. After performing each step, touch the LCD screen on the front of the unit. If it illuminates, the unit is functioning correctly and there is no need to continue to the next steps.

▪ Check power cable connections between the wall and the component. Push the plug end and the connector end in firmly.

▪ If the component is plugged into an AC line conditioner, make sure the line conditioner is turned on.

▪ Flip the master power switch on the rear panel of the unit off and on again. This will reset the internal circuit breaker of the component.

▪ Check the circuit breaker for the AC circuit that supplies power to the component. If the breaker is tripped, flip it back on. If it will not turn on, there is likely a short circuit somewhere in the lines or in a device connected to this AC circuit.

▪ Check the power cords for your components to make sure none have been damaged.

▪ If none of these conditions restores power, it is possible one of the internal fuses of the component is blown. Do not attempt to change the fuse yourself—this component requires the use of special fuses that are not commonly available. Contact your Constellation dealer.

Unit is on, but no sound is produced

1. Touch the LCD screen if it is blank. If it illuminates and shows anything other than the onscreen Power button, the unit is on. If it shows the onscreen Power button, touch the button to power up the unit.

2. If the front touchscreen shows the message "Powering On," wait 10 seconds. Once the unit is warmed up, an input screen should appear and sound should come from the speakers.

3. If the volume numbers on the LCD panel are flashing, hit the Mute button on the front panel or the remote to restore sound.

4. If the above steps do not restore sound, try the following in order. If any one of the steps restores sound, there is no need to continue to the next steps.

▪ Check the correct input is selected. Cycle through available inputs using the front touchscreen controls, or select the desired input using remote.

▪ Check that the source component is on and playing back—i.e., if it is a CD player, make sure that the CD is playing and not in pause mode.

▪ Check the connections between the Performance 2 Preamplifier and amplifier(s), and between the Performance 2 Preamplifier and the audio source device. If a cable is disconnected, reconnect it. If this does not restore sound, try substituting a different set of cables in order to make sure the original set was functioning properly.

▪ Check that the volume is at a sufficient level. Do not turn the volume all the way up, as if sound is reestablished while the Performance 2 Preamplifier is set to maximum volume, damage can be done to speakers and amplifiers.

Sound seems unfocused

1. Play a CD of typical pop vocals and listen to speakers at an equal distance from both (at least

8 feet away from each speaker). If the vocals seem to come from between the speakers, they are connected correctly. Alternatively, you can use the "barking dog" test from the *Stereophile Test CD* or a similar phase check test from another test CD.

2. If the vocals seem to come from all around you, make sure that the cables between the amplifier(s) and the speakers are connected properly, with the marked connector or cable connected to the positive (red or +) binding post on the unit, and the unmarked connector or cable connected to the negative (black or -) binding post.

3. If is necessary to change the speaker cable connection, turn the amplifier(s) off first. To avoid possible electrical shock or damage to the amplifier(s), you must discharge the energy stored in the power supply. To discharge the power supply, turn the power off with music playing. It may take up to a minute or so for the sound to stop. After the sound stops, it is OK to change or adjust the cables.

Sound comes from the wrong speaker

If left-channel sounds are coming from the right or vice-versa (i.e., the violins in an orchestral

recording come from the right speaker, not the left), check the cable connections between the source and the Performance 2 Preamplifier and the amplifier(s), and the amplifier(s) and the speakers. Make sure left-channel cables are connected to the left channels of all components, and right to the right channels.

Only one speaker is working, or one speaker is playing different music

1. Check each cable between the Performance 2 Preamplifier and the source components. Make sure the left channel of the source goes to the left input on the Performance 2 Preamplifier (which is on the right side, viewed from the rear panel), and the right channel to the right input (which is on the left side). On the rear of the Performance 2 Preamplifier, the left and right inputs are NOT adjacent to each other. They are on opposite sides of the unit. In other words, the XLR and RCA input numbers are 1, 2, 3, 3, 2, 1.

2. When listening to speakers, check to make sure both speaker cables are firmly connected.

Remote control does not work

1. Move the remote a few feet away to a different location and

try again. The remote requires a clear line-of-sight to the infrared detector on the front panel of the Performance 2 Preamplifier.

2. If the remote control still does note work, the battery may require replacement.

Remove three adhesive-attached protective feet on the underside of the remote control. Use a 7/64-inch hex wrench to remove three hex screws. Open the black plastic clamshell and replace the lithium cell 3-volt battery, part number CR2032. Close the back of the unit, then replace the screws and plastic feet.

Balance and volume controls do not function

1. When using the input configured for home theater bypass, this situation is normal— volume and balance controls do not function in this mode.

2. If you are not using an input configured for home theater bypass, clear out the minimum and maximum volume settings for the input being used. Press the multifunction button labeled Setup on the screen, then press the Default button.

Visit the Performance 2 product page of our website for the latest user manuals and product information.
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Specifications

Performance **2** *Preamplifier*

Inputs	4 XLR stereo, 4 RCA stereo, 1 USB (for control)
Outputs	2 XLR stereo, 2 RCA stereo, 12-volt trigger
THD+N	< 0.1%, 20 Hz-20 kHz @ 10 V out, < 0.001%, 20 Hz-20 kHz @ 2 V out
Signal-to-noise ratio	> 108 dB, A-weighted
Input impedance (balanced)	40 kΩ
Input impedance (single-ended)	20 kΩ
Output Impedance	< 20 Ω
Volume control resolution	0.5 dB from 0 dB to -90 dBFS
Preamplifier weight	28 lbs / 12.75 kg
Power supply weight	12 lbs / 5.5 kg
Dimensions (preamplifier)	17 x 5.25 x 15.75 in / 43.2 x 13.3 x 40 cm (WHD)
Dimensions (power supply)	17 x 2.5 x 13 in / 43.2 x 6.4 x 33 cm (WHD)

Specifications subject to change.

The Sound of Perfection.

Your Performance 2 Preamplifier is designed to provide many years of trouble-free, maintenance-free service. If you encounter any problems you cannot solve or have technical questions, please contact your Constellation dealer.

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AND MANUFACTURED IN CALIFORNIA, U.S.A.